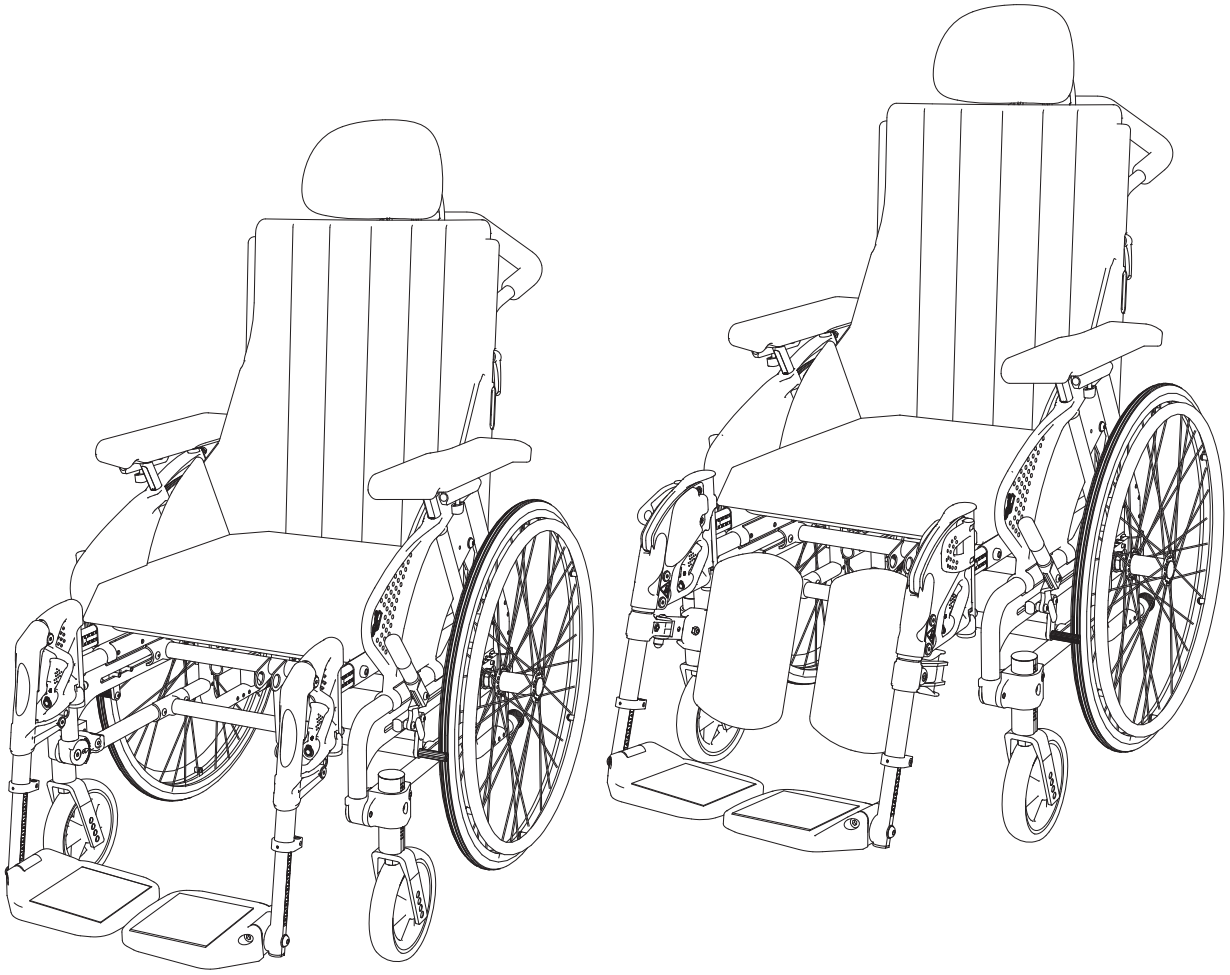
USER MANUAL

EN

EMINEO



handicare

MB3160-EN-C

Introduction

Congratulations on your choice of new wheelchair

Quality and function are key aspects of all wheelchairs in the Handicare series.

For your own safety, and in order for you to get the best possible benefit from the features of your new wheelchair, we recommend that you read this user manual carefully before you start to use the wheelchair.

Emineo in brief

Emineo has been developed in line with the market. The result is a wheelchair with particularly good seating comfort through its unique tilt function and newly developed back solution.
Emineo is an extremely light wheelchair, it rolls easily and has a narrow seat, which provides good capabilities for negotiating obstacles through narrow doors and in narrow rooms.
By means of its extensive accessories programme, Emineo can easily be adapted to each user. Many different adjustments can be made and the adjusting procedures are intuitive and demand minimum use of tools and replacement of parts. Measuring scales on all adjustment points simplify the adjustments and ensure their accuracy.

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Wheelchair parts

In order to be able to properly understand this manual, it is important that you are aware of the commonest terms used to describe the various parts of the wheelchair. Examine the drawing below, and note the relevant parts on your wheelchair.
The equipment on your wheelchair may vary slightly from that shown in Figure 1. The wheelchair is delivered with two types of equipment; “Basic” and “One-tool”. Where functions, controls and adjustments differ on Basic and One-tool equipment, this will be indicated in the text and figures in this user manual.
Where Emineo is set up as an assistant-manoeuvred chair, it is equipped with different wheel dimensions and a brake lever for the assistant on the pushing handle.

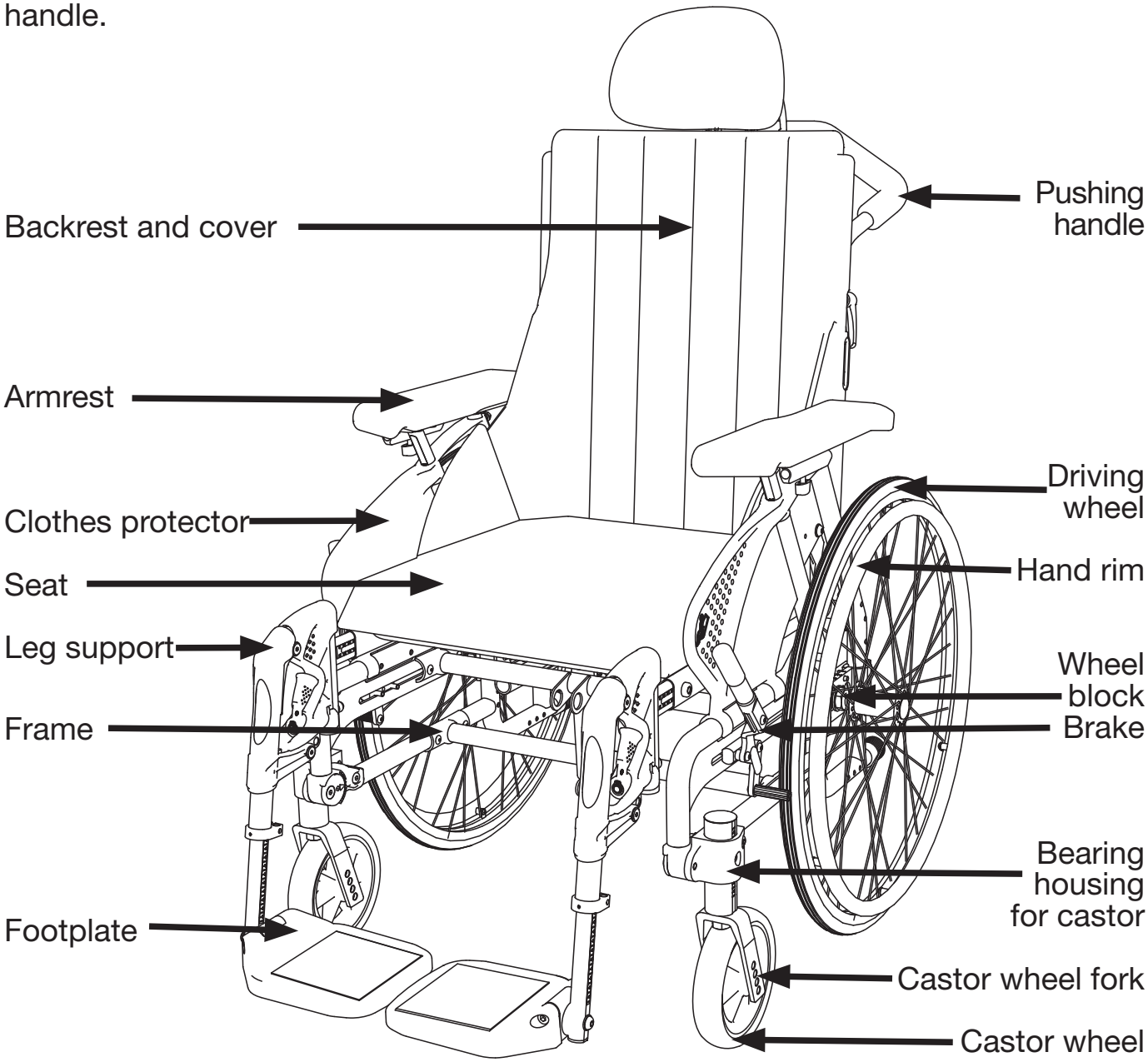


Figure 1

Assembly Figures 2 and 3

The standard wheelchair is delivered complete.

All you need to do is:

- Unfold the back, see page 12
- Fit the armrests, see page 6
- Fit the leg supports, see page 7

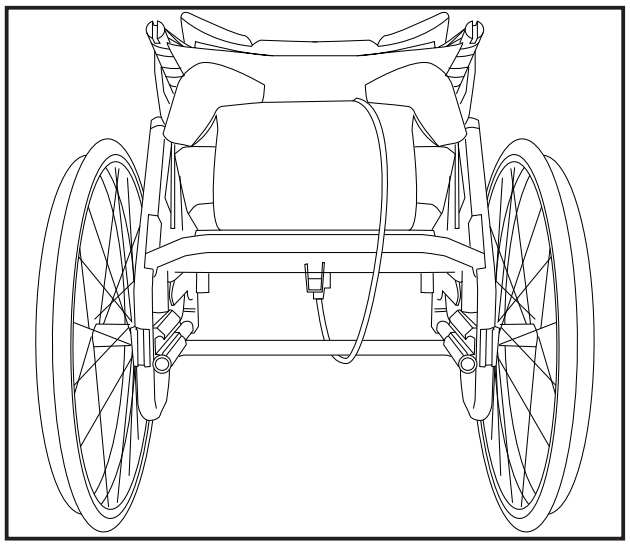


Figure 2

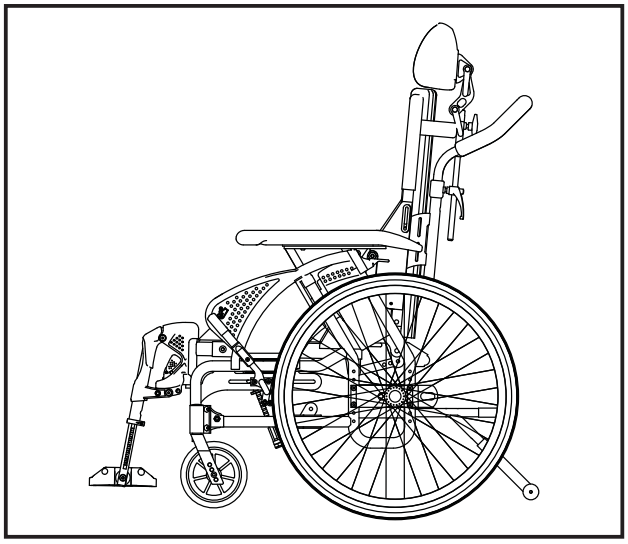


Figure 3

Quick-release catch *Figure 4*

The wheelchair has a quick-release catch on the driving wheels. Press the button in the middle of the driving wheel in order to remove or attach the wheel.

NB!
Check that the wheel is properly secured by ensuring that the button pops out approximately 5 mm when the wheel bolt is completely in the casing.

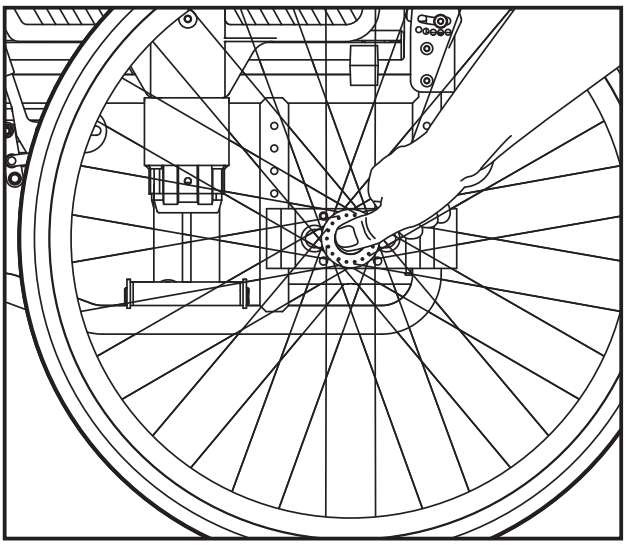


Figure 4

Height adjustable pushing handle *Figure 5*

The pushing handle is adjusted by loosening the locking handle (5A) whilst moving the pushing handle upwards or downwards to the desired height. Re-tighten the locking handle.
For extra safety, the pushing handle is fitted with a snap lock in the uppermost position. To remove the pushing handle, pull it up to the uppermost position and press the snap lock (5B).

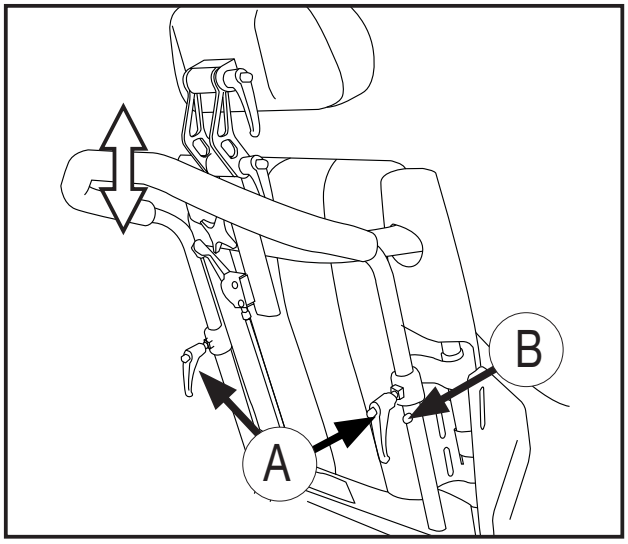


Figure 5

Armrests, removing and fitting *Figure 6*

Remove the armrests by lifting them up. To fit them back on, place them in the armrest tubing.

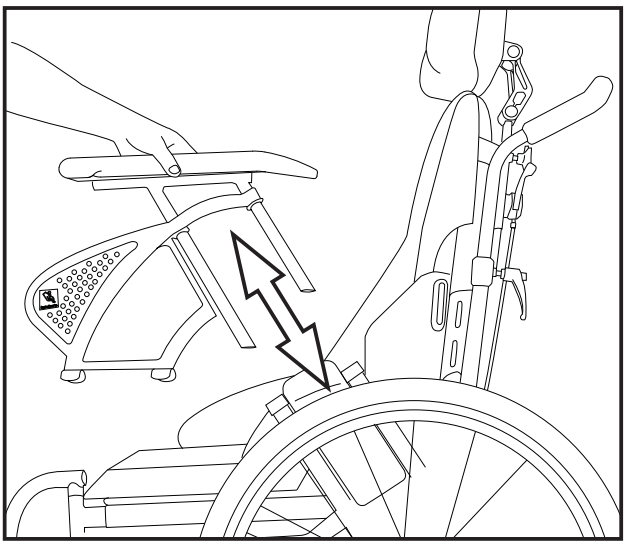


Figure 6

Swing out/attach/remove the leg supports *Figures 7 and 8*

The procedure is the same for fixed and angle adjustable leg supports.
The leg supports can be swung in/out or removed in order to make transport and getting in and out of the chair easier. The leg supports can be released by twisting the lever (7A) inwards or outwards whilst swinging the leg supports.

After the leg support has been swung to the side, it can be lifted straight up and completely removed if desired. In order to attach it again, carry out these steps in reverse order, and the handle will lock automatically.

The complete leg support unit and fastenings can be removed, see page 27.

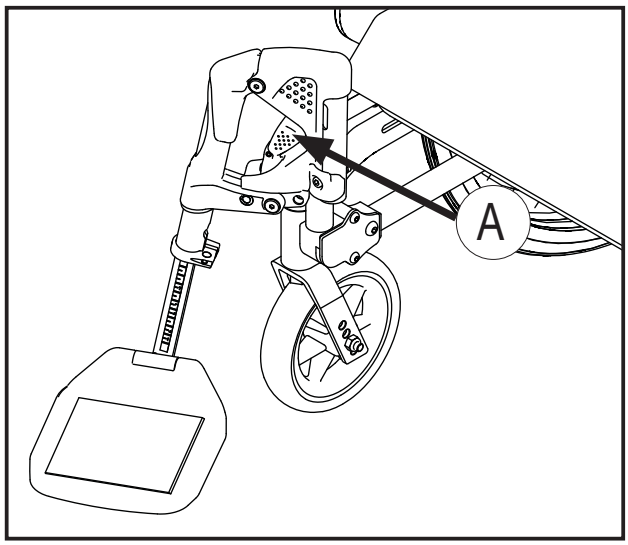


Figure 7

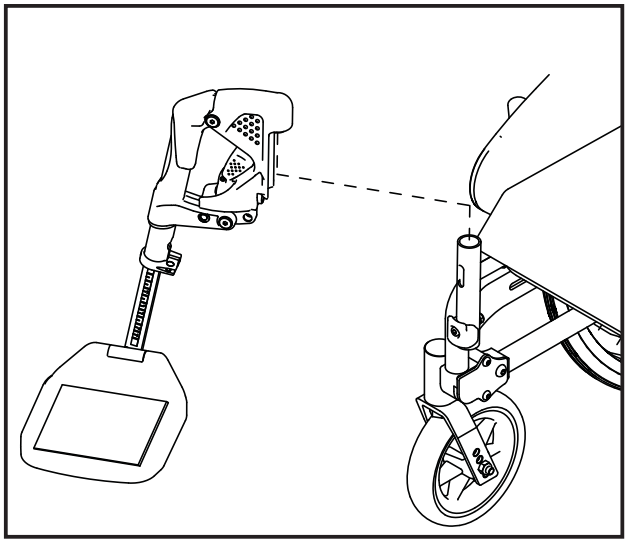


Figure 8

Using the brakes *Figure 9*

Pull the brake lever towards you to engage the brake.

⚠ The brake is only designed to hold the chair when it is stationary. Under no circumstances should it be used as a driving brake.

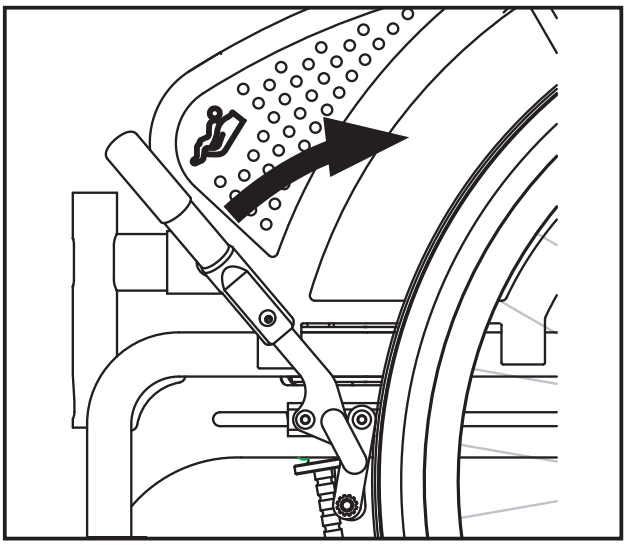
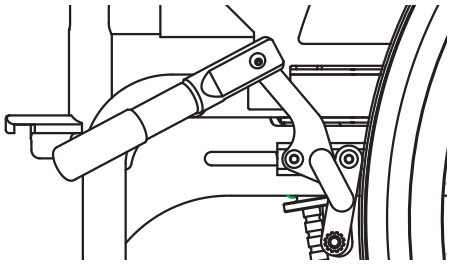


Figure 9



To make sideways transfer easier, the brake lever can be folded down. This is done by pulling the brake lever upwards and then folding it down.

Using the brakes on Emineo with assistant brake *Figure 10*

(assistant brake is standard on helper-guided chairs; also available as an accessory)

- Squeeze the brake handles (18A) to brake
- Push the release handle (10B) away from you to lock the brakes on when parking. Squeeze the release handle to release the brakes

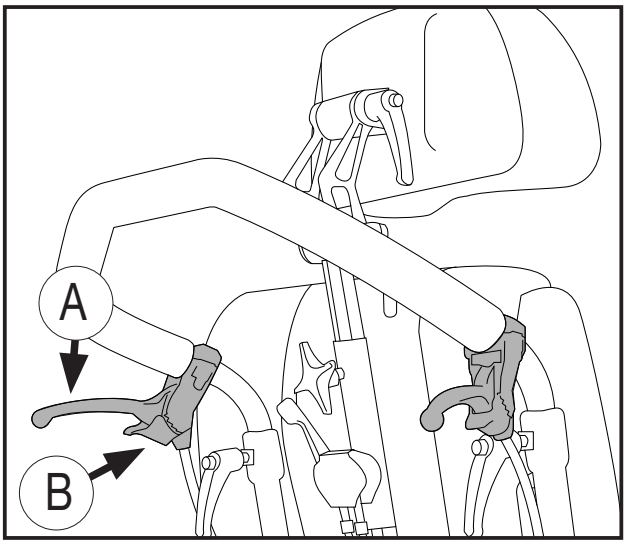


Figure 10

Anti-tip stabiliser/tipping bar
Figure 11 and 12

The anti-tip stabiliser is put into position by pulling it out and turning it in a downward direction simultaneously. The anti-tip stabiliser is adjusted as standard with a clearance to the base that makes it possible to mount doorsteps etc.

The tipping bar is accessible when the anti-tip stabiliser is up or down.

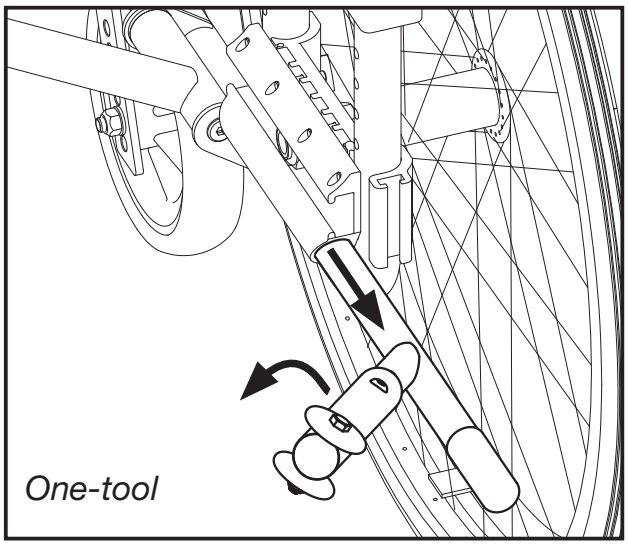


Figure 11

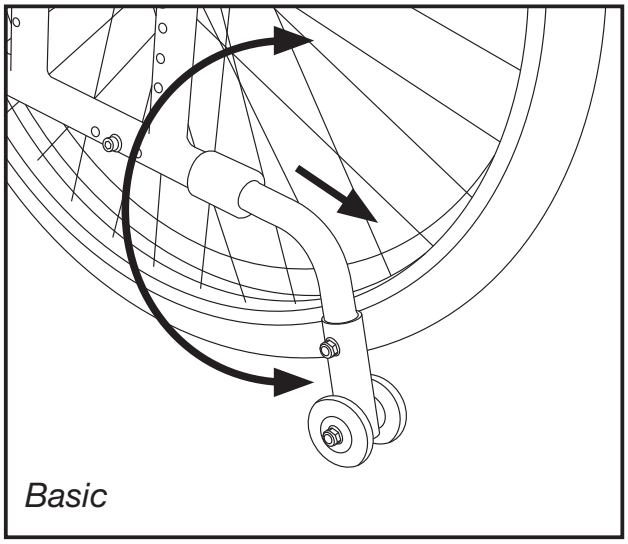


Figure 12

Tilting *Figure 13*

When you tilt the chair, the balance point is retained. As you tilt the chair backwards, the back opens 8°. You can use various methods for tilting the chair depending on your function level:

- The assistant squeezes the tilt lever and the user leans forward/backward
- The assistant squeezes the tilt lever and the user pulls himself forward/ pushes himself backward using his hands

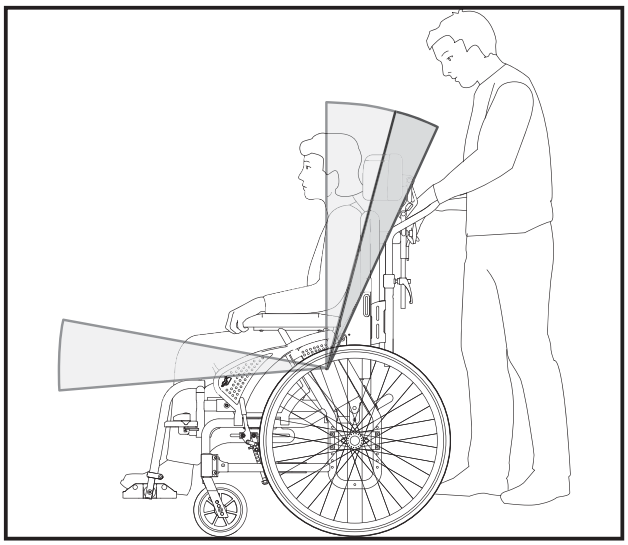


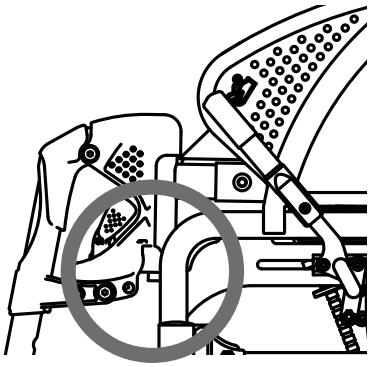
Figure 13

Beware of pinching
If a table has been fitted to the Emineo, the chair must not be tilted with the user in it.

A user-controlled tilt lever which the user can use without the help of an assistant, is available as an accessory.

The balance point on Emineo can be adjusted for optimal use in relation to the user's function level and weight. See page 22.

⚠ Beware of pinching!



Do not put hands etc. between the side frame and leg support attachments when tilting the wheelchair.

Adjusting the back angle using the adjustment lever (accessory)

Figure 14

Adjust the back angle separately using the lever (14A).

- Squeeze the lever as you push the backrest forwards or backwards

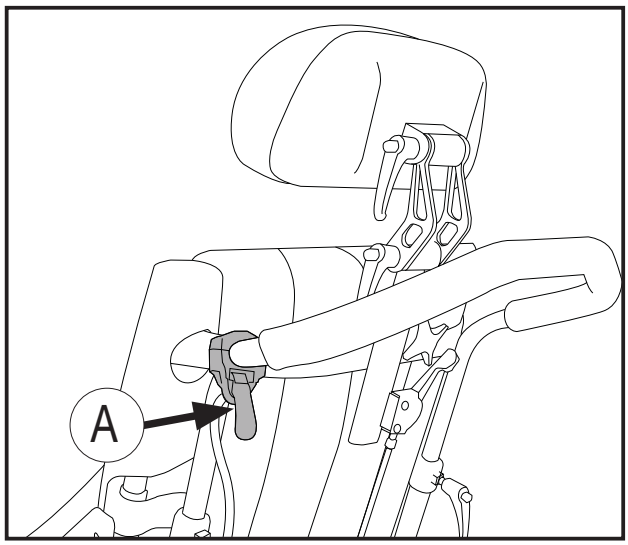


Figure 14

Electrical tilt and back *(accessory)*

Use the manual control to tilt the chair and change the back angle.

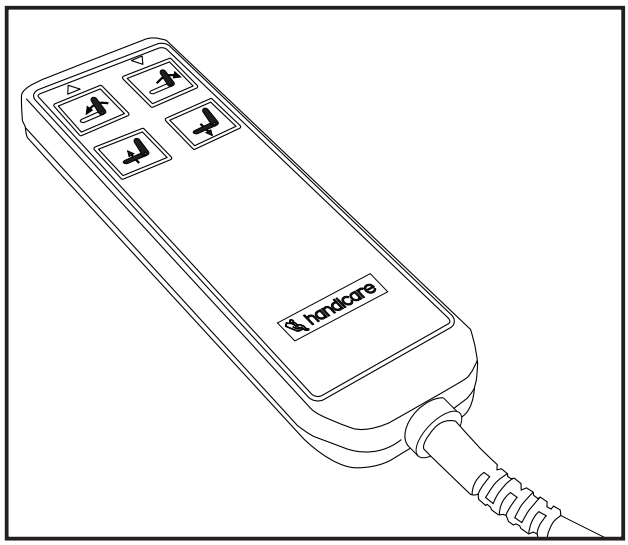
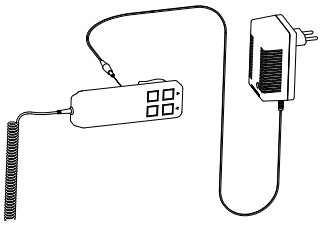


Figure 15

Charge procedure



The wheelchair must not be used during charging. Only charge the chair when it is not in use.
Place the charger plug in the manual control and connect to electricity (230 V). A green light will show on the charger when the batteries are fully charged.

Fold the backrest up or down

Figures 16 and 17

- Remove the armrests
- Tilt the chair forwards. Pull out the bolt (16A) and turn it 90° to lock it in the open position, release the bolt and fold down the back

Carry out this procedure in reverse order to pull the back up.

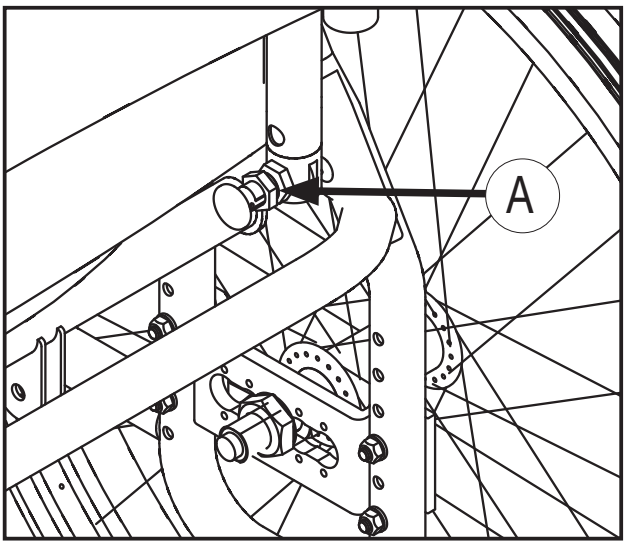


Figure 16

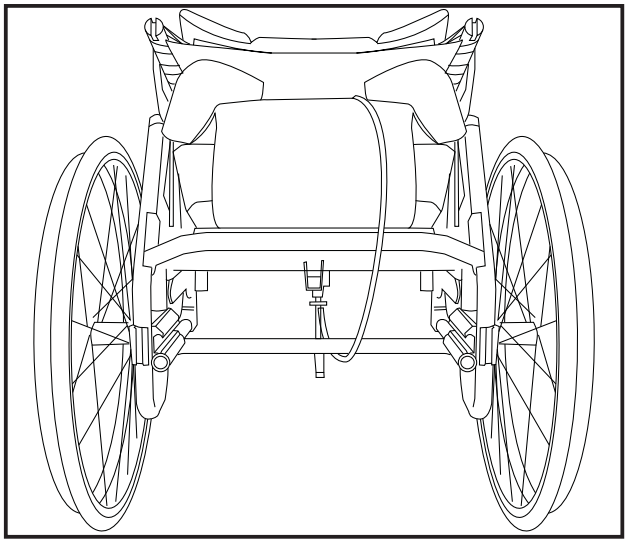


Figure 17

Moving in and out of the chair
Figures 18, 19 and 20

- Activate the brakes
- Swing out or remove the leg supports
- Tilt the chair forwards
- The user can now be moved in or out the wheelchair by means of manual lifting or a person lift, or frontal movement if the user has the ability to stand, see figures 18, 19 and 20

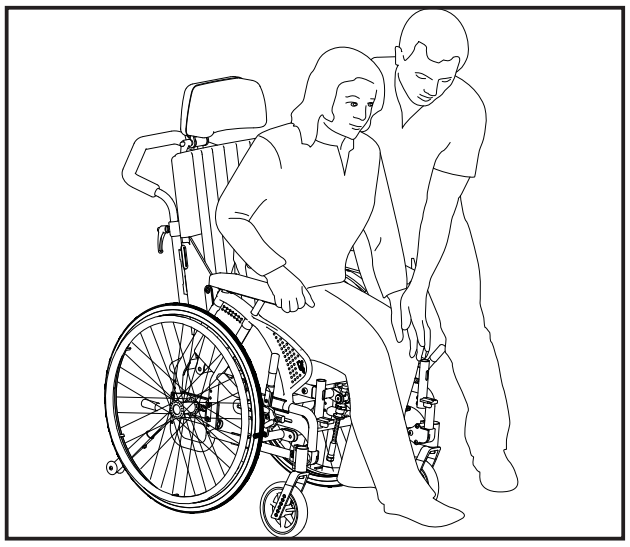


Figure 18

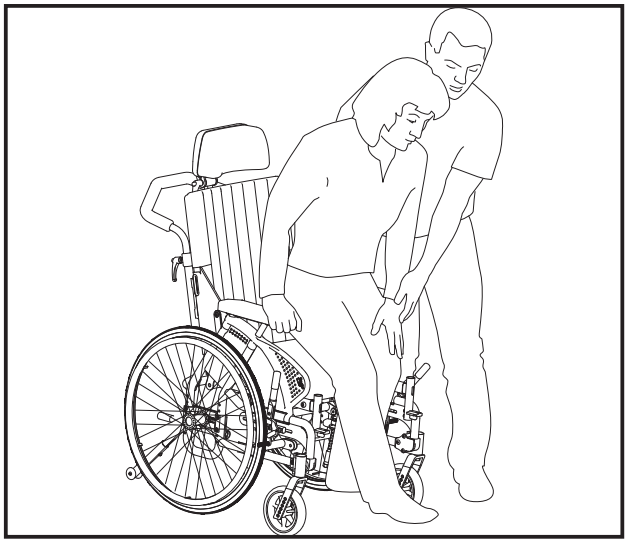


Figure 19

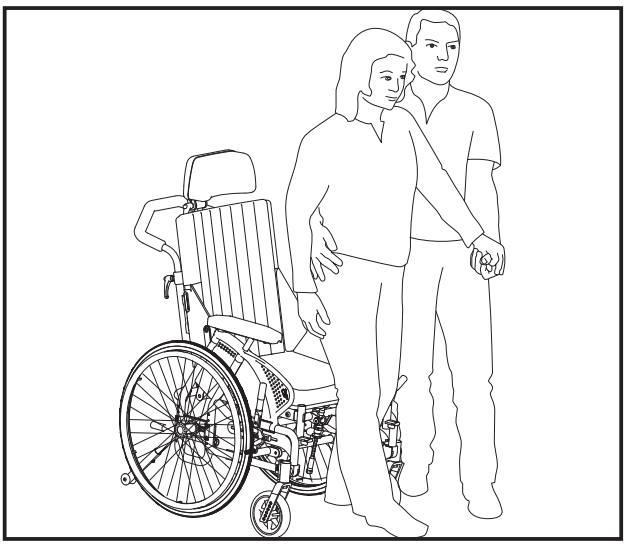
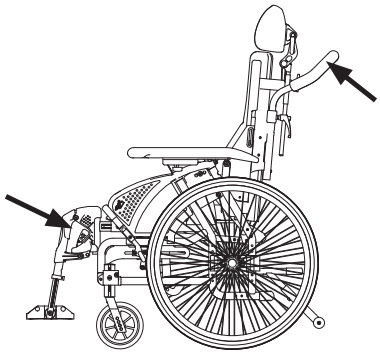


Figure 20

Negotiating obstacles, stairs
Figures 21 and 22

If the wheelchair is being lifted up/ down stairs with the user sitting in it, the recommended lifting points should be used. These are marked on the product.



The lifting points are the pushing handle and the leg supports.

⚠ Do not lift the wheelchair by the armrests. Do not lift the wheelchair by angle adjustable leg supports.

NB!
Make sure that the pushing handle is locked before lifting.

In order for assistants to have a better lifting position, they can alternatively lift from each side of the wheelchair.

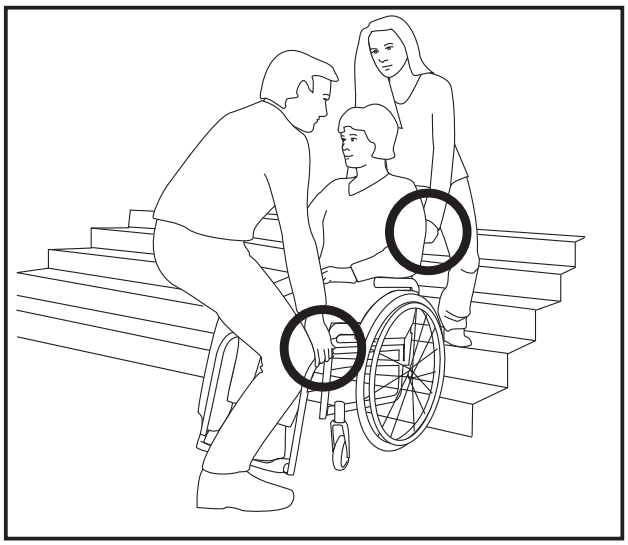


Figure 21

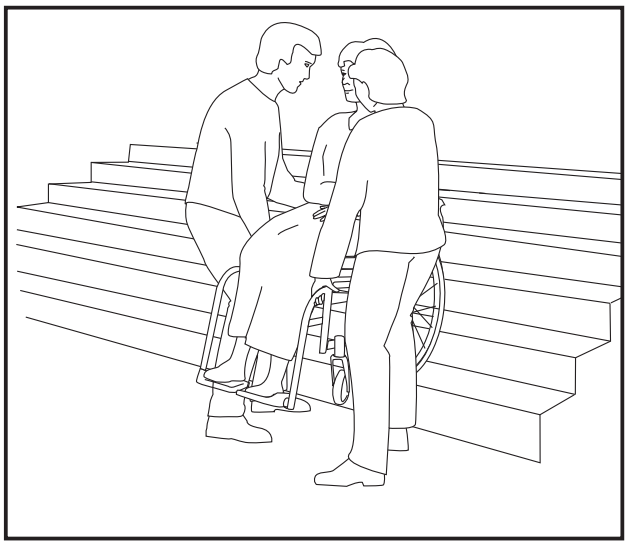


Figure 22

Negotiating obstacles, kerbs
Figure 23

When negotiating kerbs etc., swing the anti-tip stabiliser up. Then place one foot on the tipping bar whilst steering with the pushing handle. Tilt the chair backwards where necessary to get clearance between the obstacle and leg supports.

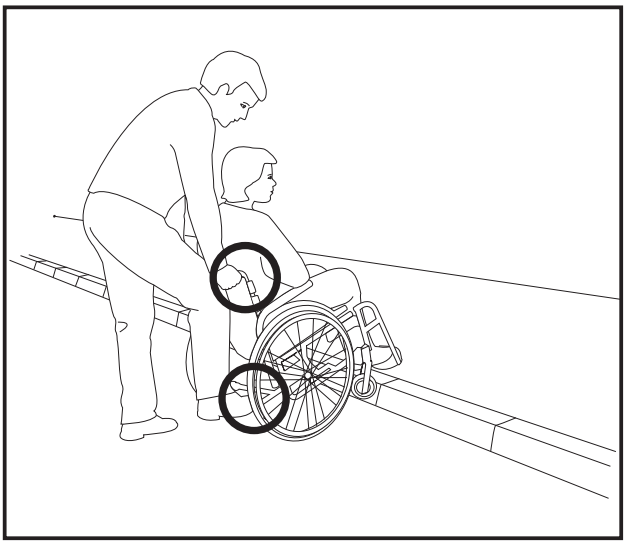


Figure 23

Steep terrain

For frequent use in undulating terrain, we recommend that a separate brake is fitted for an assistant where relevant.

Adjusting the seat height

The seat height can easily be adjusted. The different ways of adjusting the seat height also affect the ability to negotiate obstacles and rolling properties of the wheelchair.

NB!
Do not adjust Emineo so that you have different seat heights at the front and back, as this can affect the balance point.

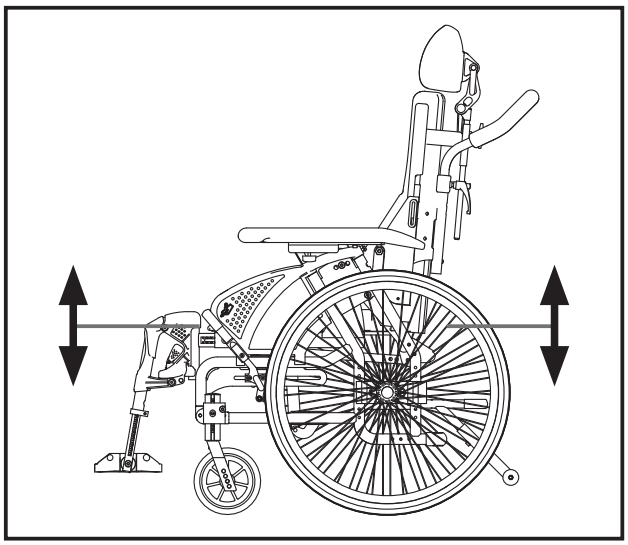


Figure 24

Adjusting the seat height – back
Figure 24

The seat height at the back can be adjusted using the methods below.

Moving the wheel block up or down
Moving the wheel block up lowers the seat. Moving the wheel block down raises the seat. See page 17.

Changing to bigger or smaller driving wheels
A bigger driving wheel increases the seat height, whilst a smaller wheel decreases the height. The table on page 38 shows which seat heights can be achieved by changing to different sizes of driving wheel.

Adjusting the seat height – front
Figure 24

The seat height at the front can be adjusted using the methods below. The table on page 38 shows which seat heights can be achieved by using the different methods.

Adjusting the wheelchair

- *Move the bearing housing of the castor wheel up or down (One-tool)*
  (see page 19)
  Moving the bearing housing up lowers the seat, and moving it down raises the seat.

- *Move the castor wheel to a higher or lower position in the castor wheel fork*
  Moving the castor wheel to a higher position in the castor wheel fork (25A) lowers the seat, and moving the castor wheel to a lower position raises the seat.

- *Changing to bigger or smaller castor wheels*
  A smaller castor wheel reduces the seat height, whilst a bigger castor wheel increases the seat height. By changing the castor wheel, a smaller castor wheel will give a smaller turning radius, and thereby increase the ability to negotiate obstacles in narrow spaces, and will also give more room for the legs. A larger castor wheel will increase the turning radius but will also improve the ability to negotiate obstacles on uneven surfaces.

- *Changing to a longer or shorter castor wheel fork*
  A shorter castor wheel fork reduces the seat height, gives a smaller turning radius, and thereby increases the ability to negotiate obstacles in narrow spaces, and will also give more room for the legs. A longer castor wheel fork increases the seat height, and allows several alternative castor wheels to be used.

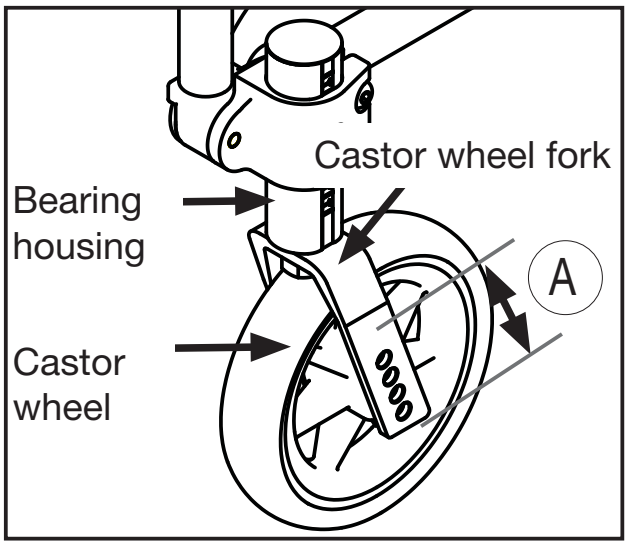


Figure 25

⚠ NB! Remember to adjust the angle of the castor wheel when you change the seat height. Remember also to adjust the brakes when adjusting the seat height at the back.

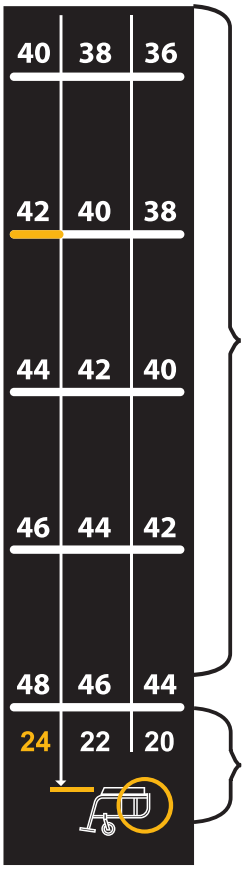
Adjusting the seat height – back (One-tool) *Figures 26 and 27*

On the wheelchair frame you will find a measuring scale (27A), which shows the seat height in relation to the size of the driving wheel.

- Remove the driving wheel
- Loosen the nut (27B) using a 29 mm wrench and unscrew until it stops
- Pull the inner and outer wheel block slightly apart
- Adjust the wheel block step-by-step up or down in accordance with the scale
- Squeeze the inner and outer wheel block together

NB!

- It is important to ensure that the pins in the wheel block go into the holes in the frame and that the casing lies horizontally in the track before tightening



Seat heights that can be achieved by the different steps on the scale

Alternative driving wheel dimensions

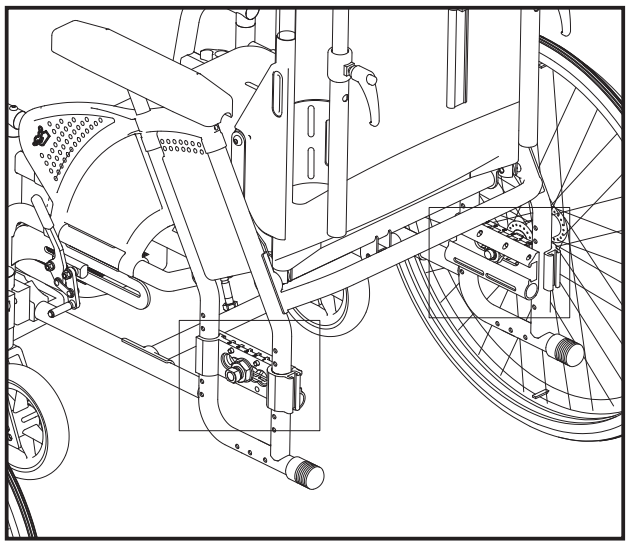


Figure 26

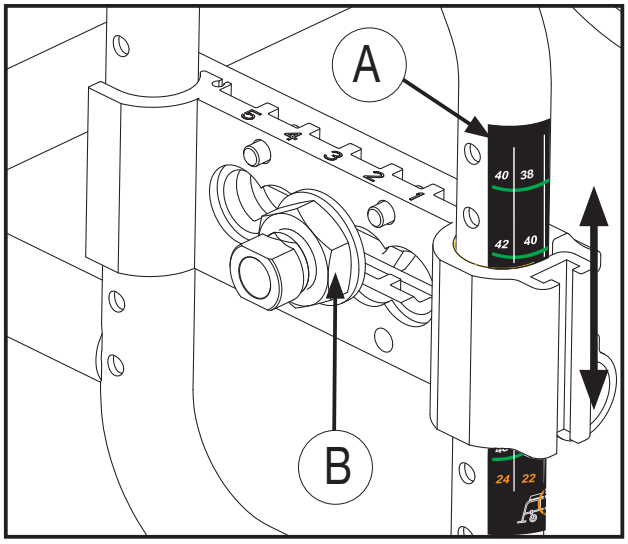


Figure 27

Find the dimension of your driving wheel at the top of the scale. The column under the wheel dimension shows where to place the wheel block in order to achieve the various seat heights.

Adjusting the seat height – back (Basic) *Figure 28*

- Remove the driving wheel
- Remove the wheel block by loosening the screws (28A). Use a 4 mm Allen key to unscrew the screws, whilst holding the nuts using a 10 mm wrench
- Move the wheel block up for a lower seat height, or down for a higher seat height. Refer to the scale to find the right seat height
- Replace and tighten the screws

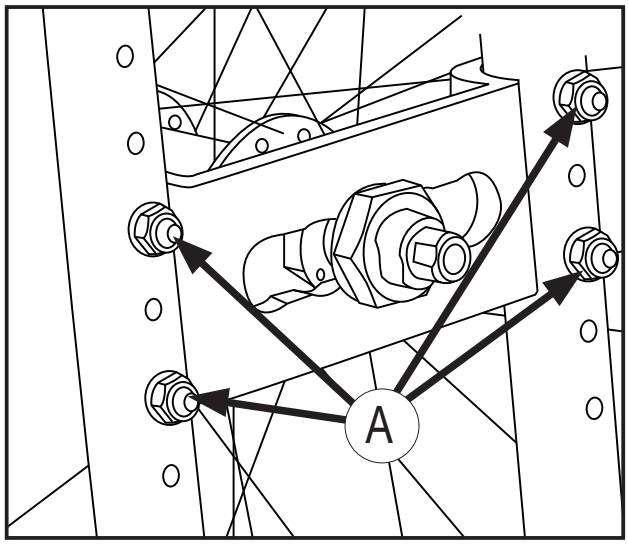


Figure 28

Adjusting the centre of gravity (One-tool) *Figures 29 and 30*

The driving wheel can be moved into 5 different positions in relation to the centre of gravity. This is shown on a scale (29A) on the wheel block. Position “1” represents the best anti-tipping position.

- Loosen the nut (29B) using a 29 mm wrench, unscrew until it stops
- Adjust the casing for the driving wheel forward or back (Figure 30)

NB! it is important to ensure that the pins in the wheel block go into the holes in the frame and that the casing lies horizontally in the track before tightening the nut.

⚠ Remember to adjust the brakes and the anti-tip stabiliser after you have adjusted the seat height and centre of gravity.

NB! When adjusting heights and the centre of gravity you should start by adjusting the driving wheels, followed by the height and angle of the castor wheels.

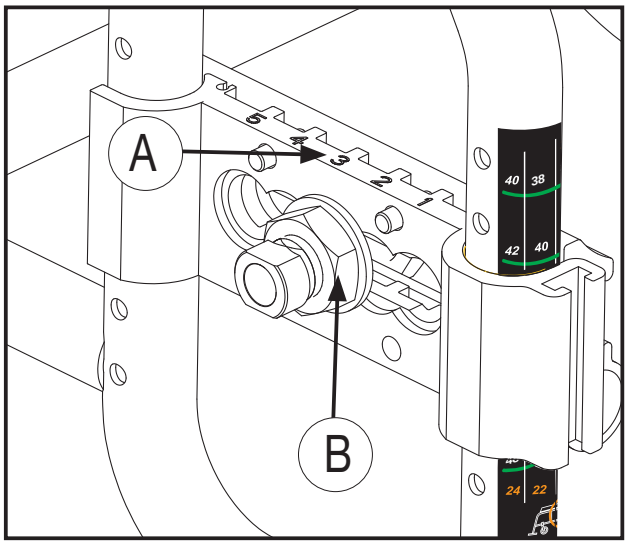


Figure 29

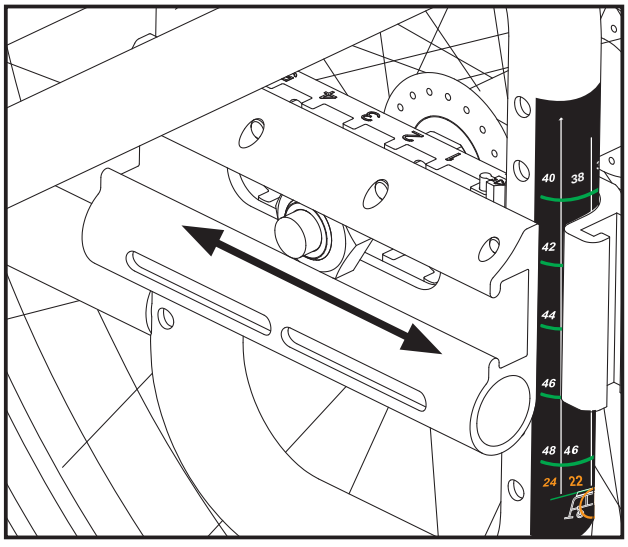


Figure 30

Adjusting the centre of gravity (Basic) *Figure 31*

Loosen the lock nut (31A) using a 27 mm wrench, whilst holding the casing (31B) using a 16 mm wrench. Turn the casing (31B) 90°. Move the wheel to the desired position. Turn the casing 90° back and re-tighten the lock nut securely.

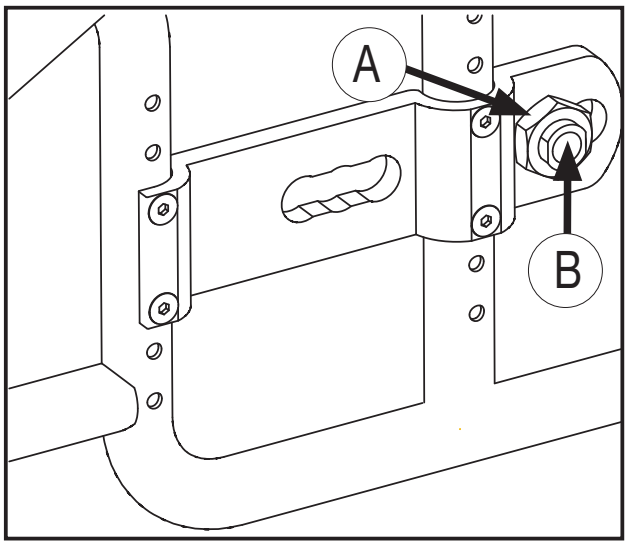


Figure 31

⚠ Remember to adjust the brakes and the anti-tip stabiliser after you have adjusted the seat height and centre of gravity.

⚠ If the backrest angle is configured up to a 30° angle, the rear holes of the wheelbase should be used in order to avoid tipping of the chair.

Adjusting the seat height – front *Figures 32, 33 and 34*

When adjusting the height of the chair, you should adjust the height of the castor wheels before adjusting the angle.

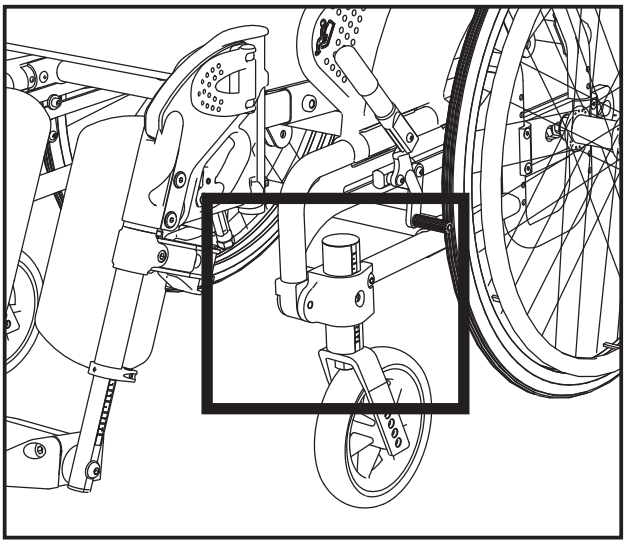


Figure 32

Adjusting the height of the castor wheels (One-tool) *Figure 33*

The castor wheels have a scale from 1–8 to help achieve the same height on both castor wheels.

- Loosen the screw (33A). Use a 5 mm Allen key
- Adjust to the desired height, see the scale (33B)
- Re-tighten the screw

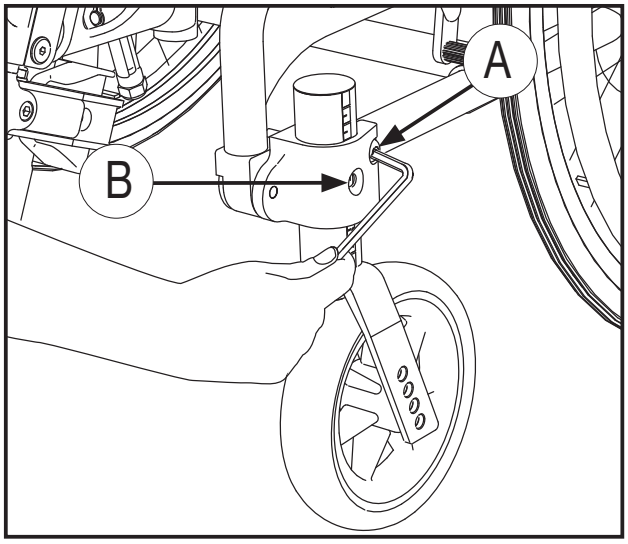


Figure 33

⚠ Do not adjust the height of the castor wheels beyond the scale. The figure should be visible in the hole on the castor wheel fastening.

Adjusting the angle of the castor wheels/castor angle *Figure 34*

- Loosen the screw (34A) slightly. Use a 5 mm Allen key
- Loosen the screw (34B)
- Place the Allen key into the rotating disk (34C) and rotate to the desired angle. See the scale
- Tighten the screw (34B) use a screw locking agent such as Blue Locktite (no.243), followed by the other screw (34A)

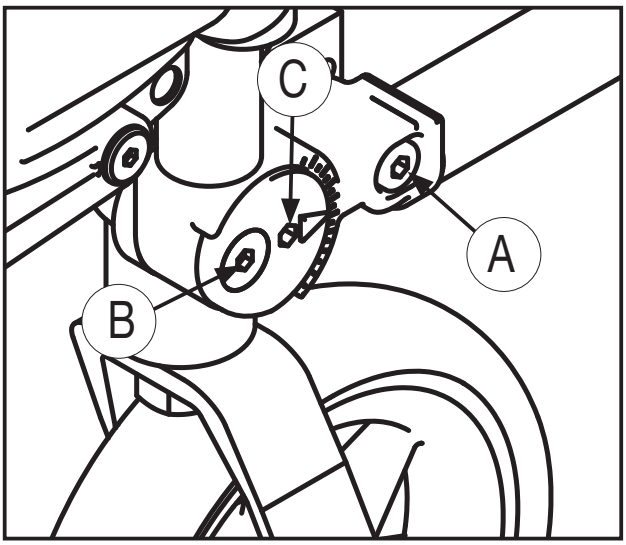


Figure 34

When the castor wheel is at the correct angle, the bearing housing will be in a vertical position (90°) to the base. This is achieved by using a right angle to the bearing house/floor.

Adjusting the height of the backrest *Figure 35*

Before adjusting the height of the backrest, loosen the backrest cover.

- Loosen the screw (35A) on each side of the back, using a 4 mm Allen key. (Do not unscrew the screw completely.)
- You can adjust the back steplessly by pulling it up or pushing it down
- Refer to the measuring scale in order to ensure an equal height at both sides
- Make sure that the screw is in the highest or lowest position in the slot before re-tightening the screw and refitting the backrest cover

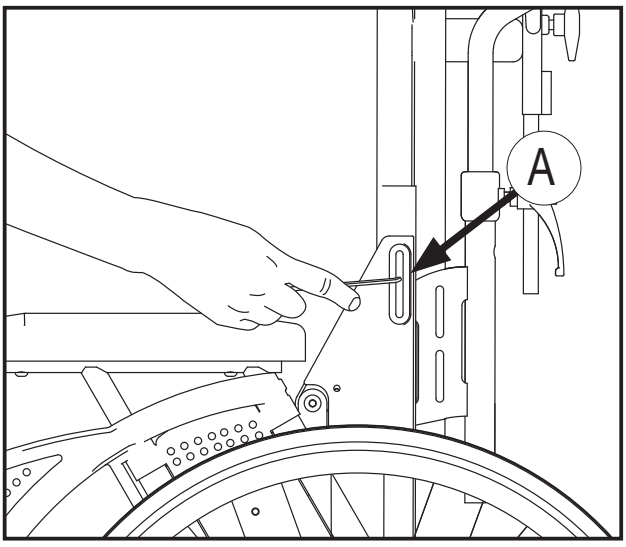


Figure 35

Adjusting the neck support (accessory) *Figure 36*

Depth adjustment

- Loosen the locking handles (36A), make the adjustment and tighten the locking handles

Height adjustment

- Unscrew the locking wheel (36B), raise or lower the neck support and tighten the locking wheel

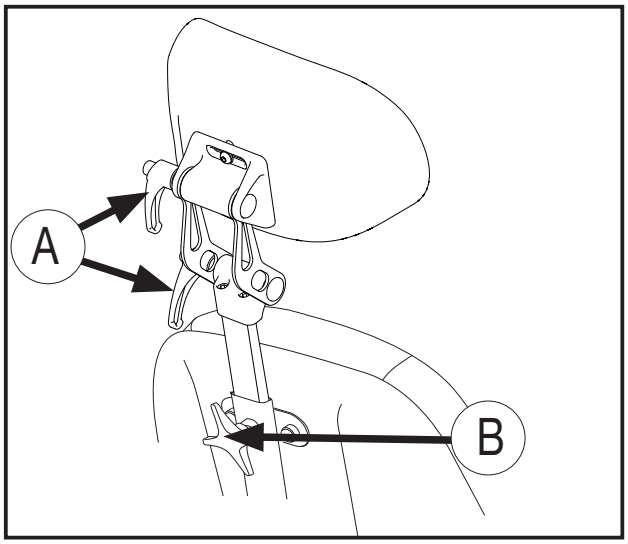


Figure 36

Adjusting the angle of the backrest *Figure 37*

The backrest angle is adjusted from the underside of the wheelchair.

- Use a 6 mm Allen key and a 13 mm wrench and loosen the screw and the nut (37A)
- The standard backrest angle is 97°. By moving the screw to the back hole, the backrest angle will be 90° and then 97°, 105° and the front hole will give an angle of 110°
- Re-tighten the screw

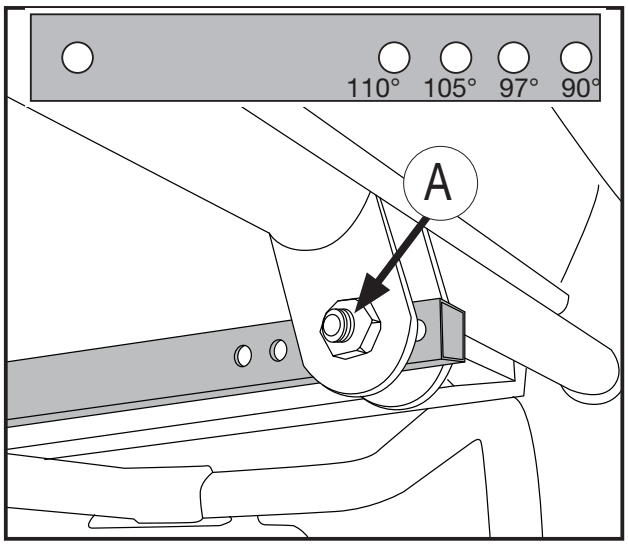


Figure 37

Adjusting the balance point for the seat tilt *Figures 38 and 39*

Adjustments to the balance point for the seat tilt should only be carried out by qualified personnel.

Users are different sizes, weights and have different function levels. This affects how the seat tilt works, and how it can be balanced.

The function level, size and weight of some users will make it easier to tilt backwards than forwards. The balance point can be adjusted in accordance with this.

Most users will prefer a balanced seat tilt, i.e. where the seat tilts just as easily forwards as backwards.

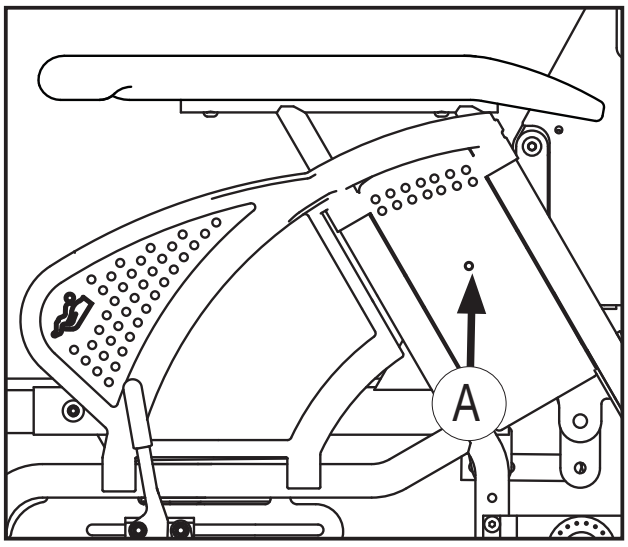


Figure 38

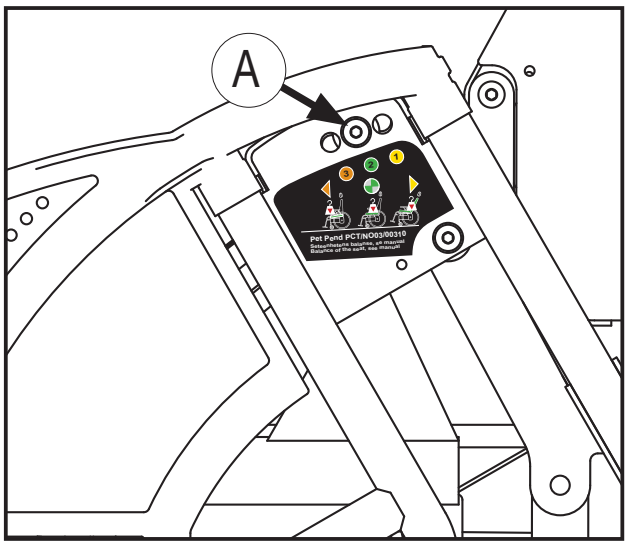


Figure 39

Follow these steps to adjust the balance point of the seat tilt:

- Remove the armrest and driving wheel. Use a 4 mm Allen key to unscrew the screw (38A) in order to remove the cover. Do the same with the cover on the inside, use a 3 mm Allen key.
- Unscrew the screw (39A) using a 6 mm Allen key, hold onto the back using a 5 mm Allen key
- Move the screw to the correct hole. The foremost holes make it easier to tilt backwards, whilst the rear holes make it easier to tilt forwards
- Check that you always use the same holes on both sides of the chair. The holes are numbered and colour-coded, both on the internal and external sides
- Re-tighten the screws and replace the covers

Adjusting the curvature of the backrest *Figure 40*

The wheelchair has a padded backrest that can be adjusted to the curvature of the back in order to achieve a comfortable sitting position and good stability. The user can sit in the wheelchair when adjustments are being made to the curvature of the backrest.

Loosen the back cover in order to access the Velcro tapes. These can be adjusted to change the backrest curvature and so achieve maximum comfort and support.

If the wheelchair is set up with a low backrest, the top Velcro tape in the lower Velcro back will not be used. This is only used if you adjust the backrest upwards.

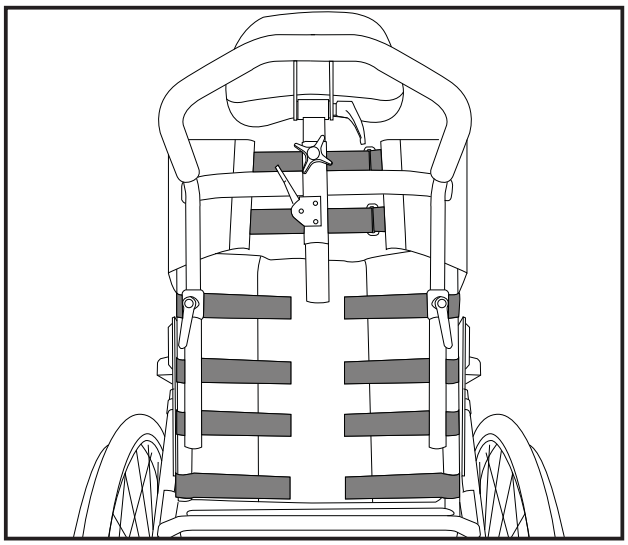


Figure 40

Adjusting the brakes *Figures 41 and 42*

The standard wheelchair is delivered with brakes that are fitted in the middle driving wheel position.

To move the brake, loosen the screw (41A) on the inside of the frame at the front of the wheelchair using a 10 mm wrench. Move the entire brake in the track to the desired position. The correct distance between the brake block and the wheel (42A) is approx. 5 mm.

The brakes that are supplied with the wheelchair will not normally need to be adjusted.

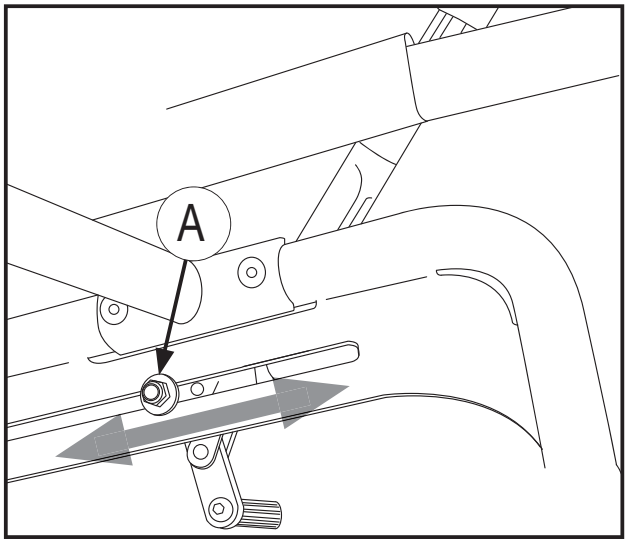


Figure 41

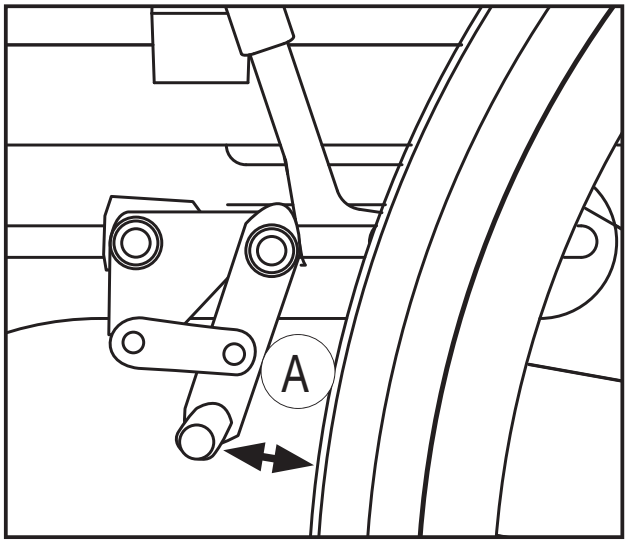


Figure 42

Adjusting the anti-tip stabiliser (One-tool) *Figure 43*

Adjust the anti-tip stabiliser when you have changed the centre of gravity of the wheelchair. Loosen the screw (43A) using a 4 mm Allen key. Pull or push the anti-tip stabiliser to the correct position so that the measurement on the stabiliser's measuring scale corresponds to the driving wheel position. Re-tighten the screw. There should be a maximum of 35 mm from the end of the anti-tip stabiliser to the base. To adjust this, loosen the screw (43B) using a 4 mm Allen key and pull/push the lower tubing on the anti-tip stabiliser. Re-tighten the screw.

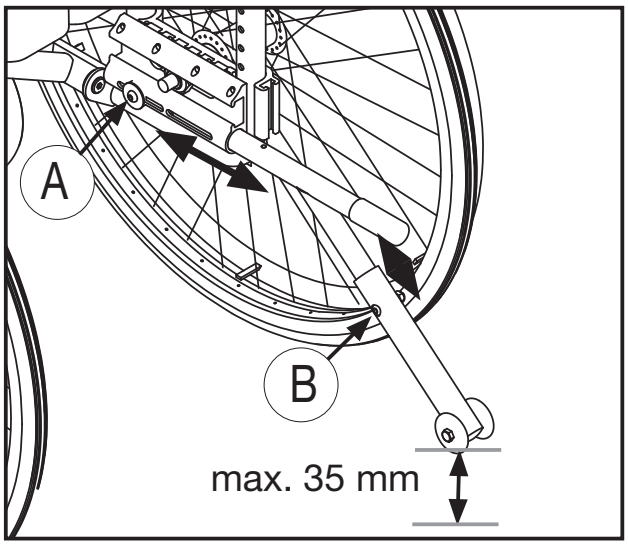


Figure 43

Adjusting the anti-tip stabiliser (Basic) *Figure 44*

Adjusting the anti-tip device when changing the chair's centre of gravity.

- Loosen the screws (44A).
- Pull or push the anti-tip device to the correct position.
- There should be a maximum of 35 mm from the end of the anti-tip device to the base of the chair.
- Re-tighten the screws.

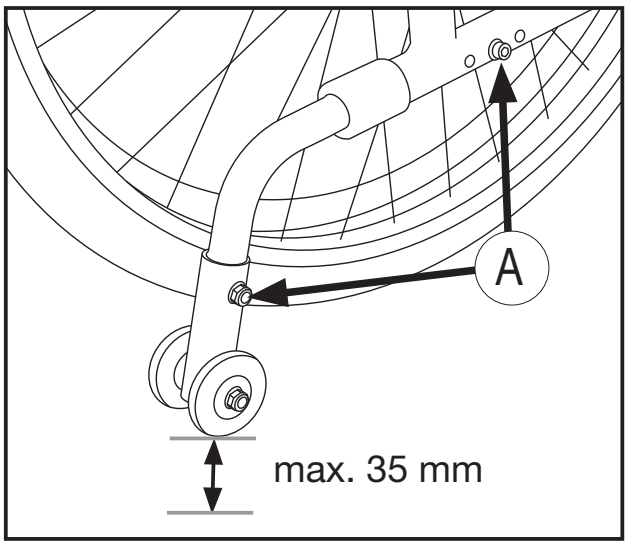


Figure 44

Adjusting the leg supports *Figure 45*

The leg supports have a linear scale (45A) on the outside, which helps to achieve the correct length. To adjust the length of the leg supports, loosen the fixing screw (45B) using a 5 mm Allen key. Then adjust the leg supports to the desired length and re-tighten the screw.

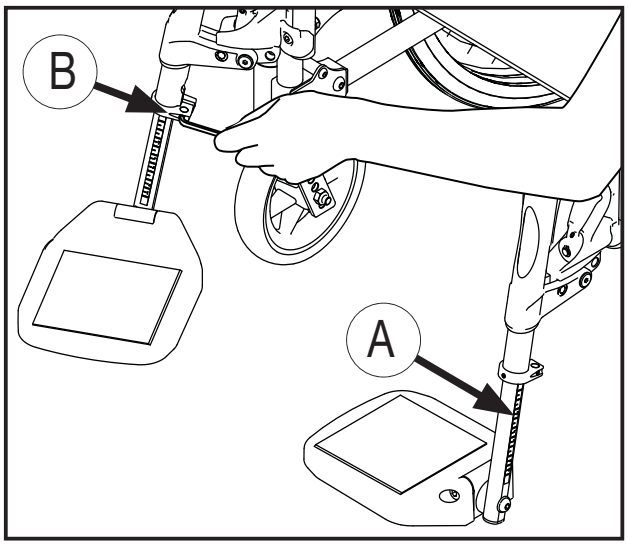


Figure 45

Adjusting the angle of the legrests *Figure 39*

The angle of the legrests can be adjusted to 70˚, 80˚ or 90˚.

- Remove the screw (39A)
- Pull or push the legrest to the desired angle
- Place the screw in the correct hole and tighten

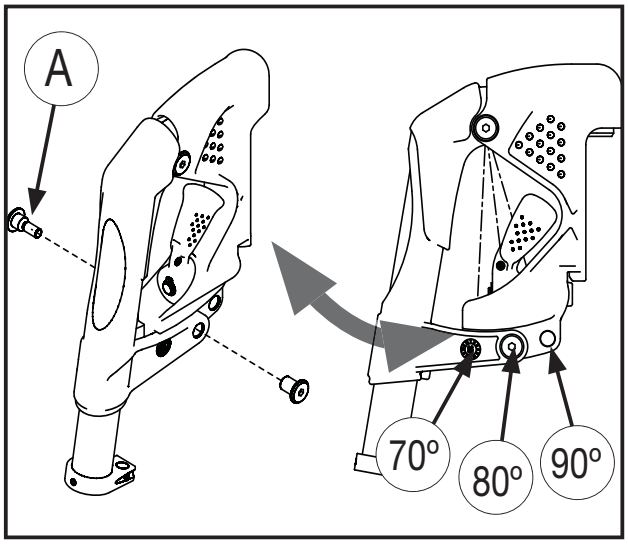


Figure 46

Footplate – angle adjustment *Figure 47*

- Loosen the screw (47A) using a 5 mm Allen key.
- Adjust to the desired angle and re-tighten the screw.

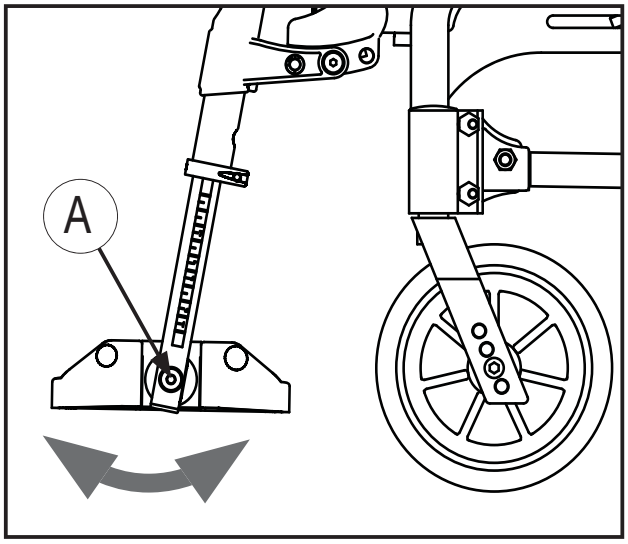


Figure 47

Angle adjustable leg supports (accessory) *Figures 48 and 47*

Angle adjustment

The leg supports can be adjusted separately.

- Loosen the locking handle (48A)
- Adjust the leg supports to the desired angle and tighten the locking handle

Balf support adjustment

- The calf support (48B) can be adjusted in depth and sideways

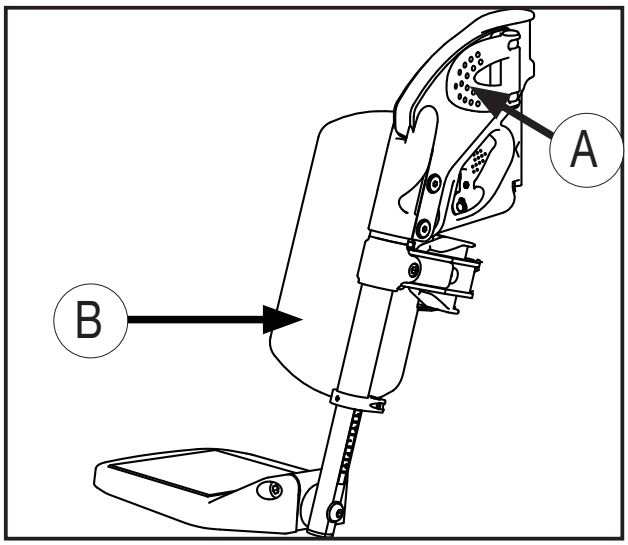
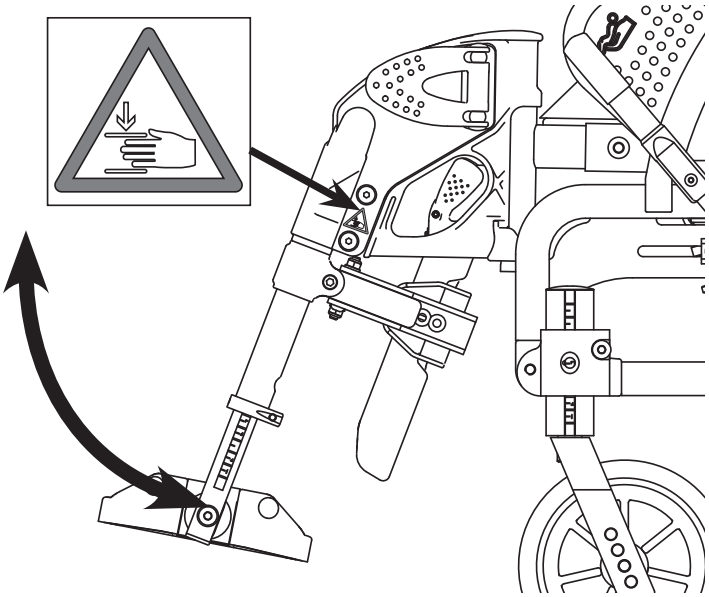


Figure 48

⚠ Beware of pinching!



Adjusting the leg support fitting *Figure 49*

The depth of the leg support fitting can be adjusted or the support can be removed. Loosen the screw (49A) using a 4 mm Allen key. Pull or push the leg support to the desired position. The leg support fitting must not be pulled out more than 8 cm. Re-tighten the screw.

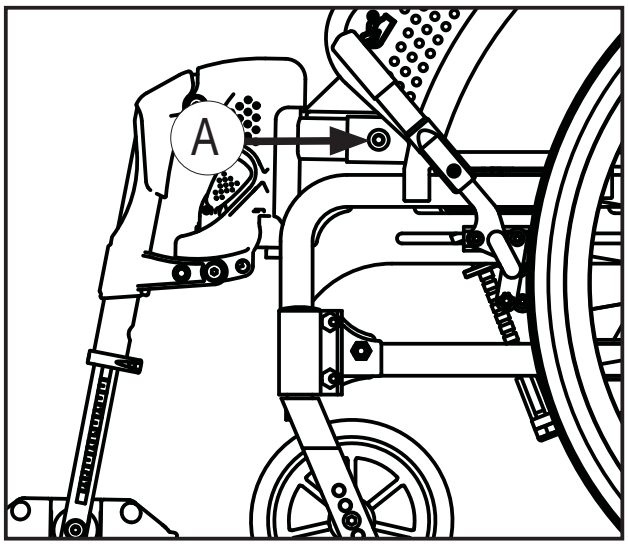


Figure 49

Adjusting the seat depth *Figure 50*

To adjust the seat depth steplessly, loosen the four screws in the seat plate using a 4 mm Allen key. Push the seat plate forwards or backwards. Re-tighten the screws.

When you have adjusted the seat depth, it may be necessary to adjust the leg support fitting, see above.

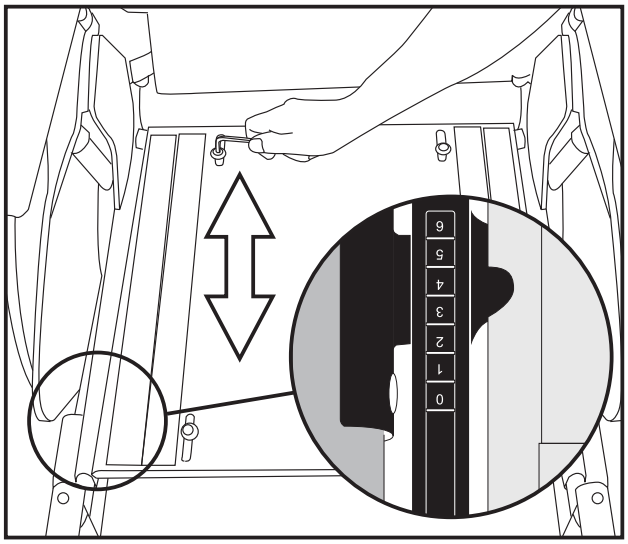


Figure 50

Adjusting the height of the armrests *Figure 51*

To adjust the height of the armrest, loosen the screw (51A) using a 10 mm wrench. Raise or lower the armrest to the desired position. Re-tighten the screw.

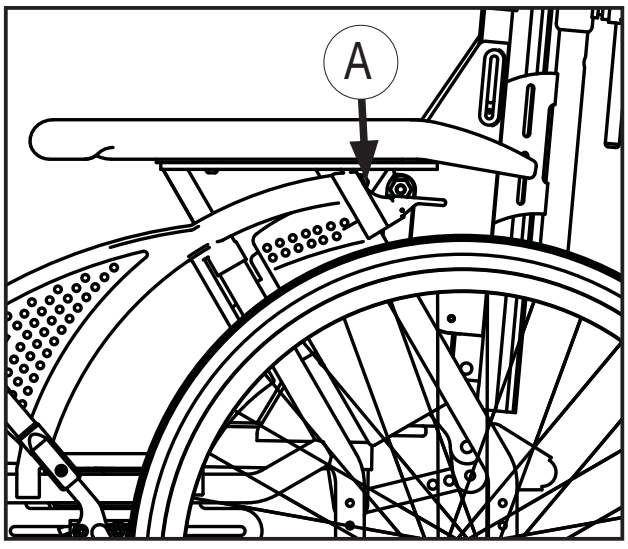


Figure 51

Fitting the hip belt (accessory)

Figures 51, 52 and 53

- Unscrew the screw (51A). Use a 4 mm Allen key.
- Fit the hip belt as shown in figure 52. Use the screw you removed.
- Check that the hip belt is correctly adapted to the wheelchair user. The belt should lie firmly over the hip at an angle of approx. 51° from the fixing position on the wheelchair.
- Make sure the belt is clean and that the locking mechanism works at all times. The belt and locking mechanism can be cleaned using a damp cloth.

⚠ Placing the belt over the hip, against the soft skin of the stomach, can result in the wrong sitting position and the user sliding forward in the wheelchair.

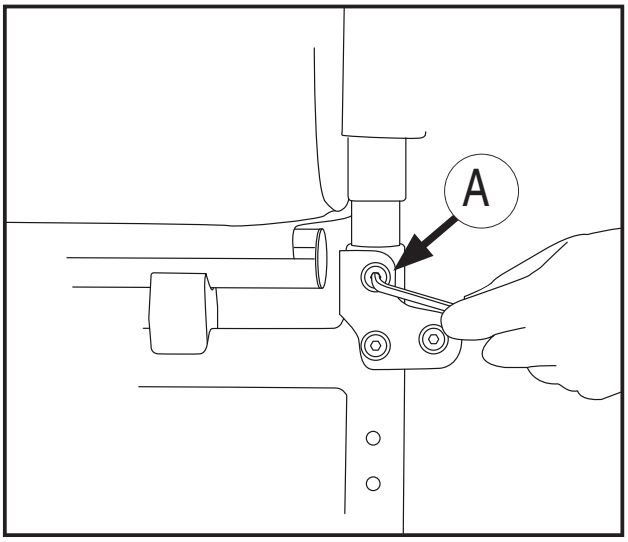


Figure 52

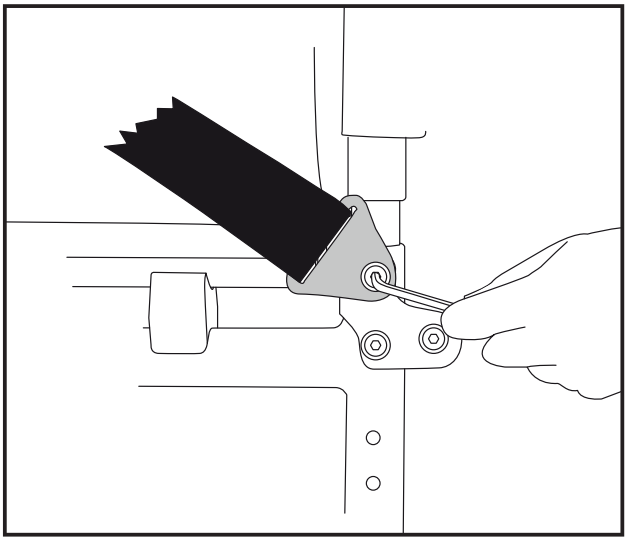


Figure 53

Correct placing of belt

Incorrect placing of belt

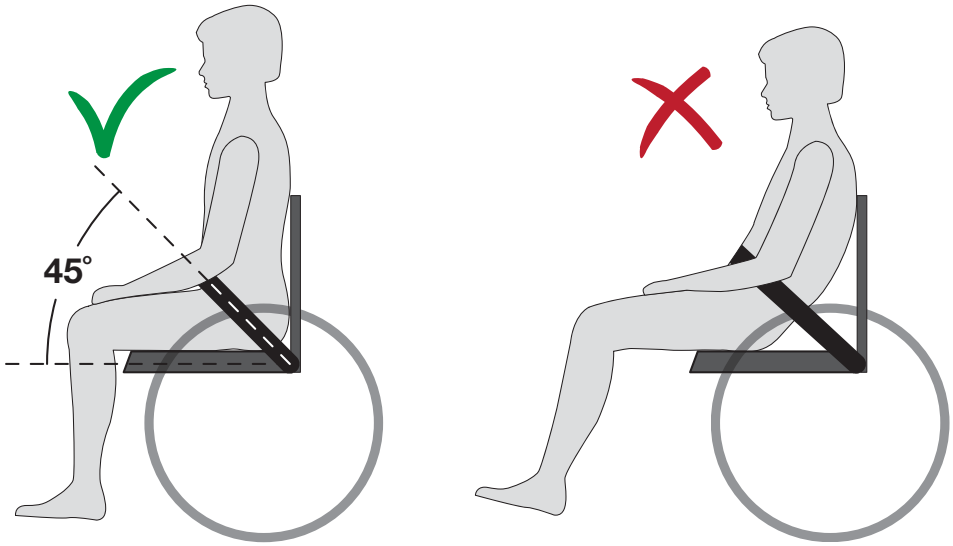


Figure 54

Safety

- Do not stand, or exert great pressure, on the footplates
- A wheelchair should be viewed as a replacement for walking. Users must therefore move among pedestrians, not on roads or streets with motorised traffic. Use reflectors when using the wheelchair outdoors, see page 30
- When transferring yourself out of the chair, take care to ensure that you are on as stable and even a surface as possible. To ensure that the chair does not move when you don't want it to, check that the brake is engaged and locked
- The maximum user weight for Emineo 4 is 140 kg
- You should visually inspect the chair regularly to assure yourself that all screws, bolts and other fixing devices are securely fastened
- When the chair is in use, always ensure that the anti-tip stabiliser is in the correct position
- If any modifications are made to the chair, such as moving the driving wheels or front castor wheels, changing the backrest height etc., this can affect the chair's driving characteristics, balance and tipping point. Exercise particular care when you start to use the chair again
- Avoid making modifications or alterations to the chair which may affect the safety which is built in to the chair's construction
- The use of qualified helpers is recommended when transferring into and out of the chair
- Take care that clothes, baggage and other loose items do not get tangled up in the wheel spokes
- Be aware of the possible danger of crushing injury: avoid putting your fingers between the clothing guard and the wheel, between the wheel and the brake, between the hand rim and the wheel, between the moving parts on the angle adjustable legrest and between the side frame and the leg support attachments when tilting
- If while using the chair it is necessary to raise the front of the chair to negotiate an obstacle, never do this solely by pressing down on the pushing handles. Step on the tipping bar while using moderate pressure on the pushing handles
- Sitting in the wheelchair for a long period of time increases the danger of pressure sores. If there is a high risk of pressure sores, we recommend the use of a special seat cushion to avoid this
- The surface temperatures can increase when the wheelchair is exposed to external sources of heat (e.g. sunlight).

Reflectors *Figure 55 and 56*

Use reflectors when using Emineo outdoors. See Figure 55 and 56 for reflector locations.

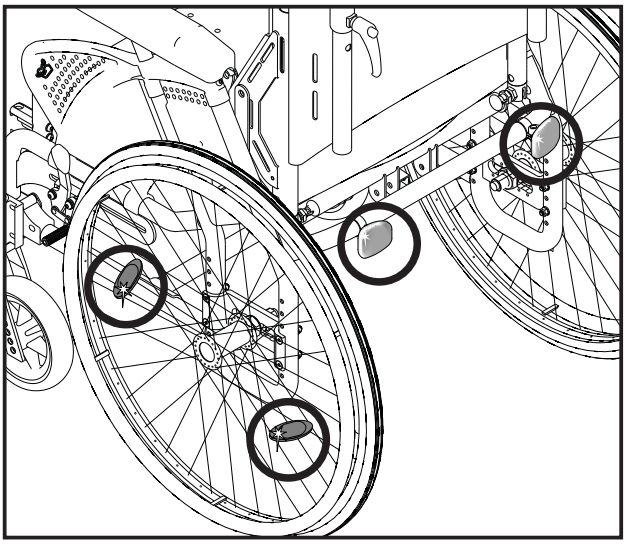


Figure 55

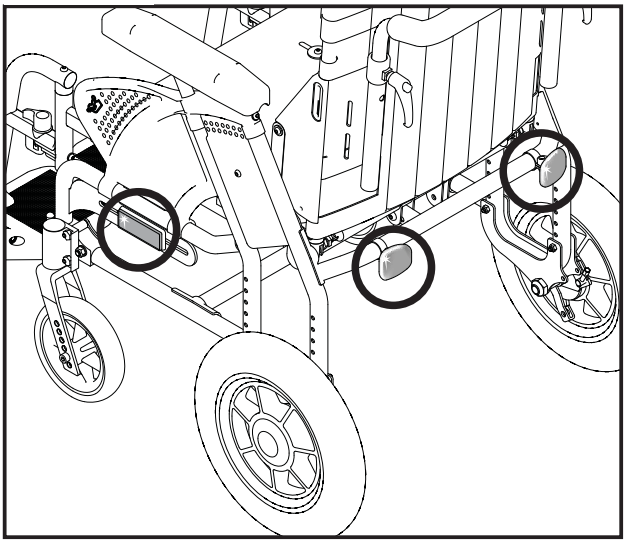


Figure 56

Emineo as a passenger seat in a car

Wheelchair users should transfer to the vehicle seat and use the vehicle-manufacturer-installed restraint systems whenever it is feasible, and the unoccupied wheelchair should be stored in a cargo area or secured in the vehicle during travel.

The wheelchair can be used as a passenger seat in a car and has been tested in accordance with ISO 7176/19.

When the wheelchair is used as a passenger seat it should be facing forward. The wheelchair must be attached to the fastening system it was tested for; The system is a 4-point fastening system. The system is a total system that fastens both the wheelchair and user to the car. The system requires fastening rails to be mounted in the car.
User restraint system: 3 point shoulder and hip belt.

Emineo has marked off four points (Figure 57) that must be used when securing the wheelchair.

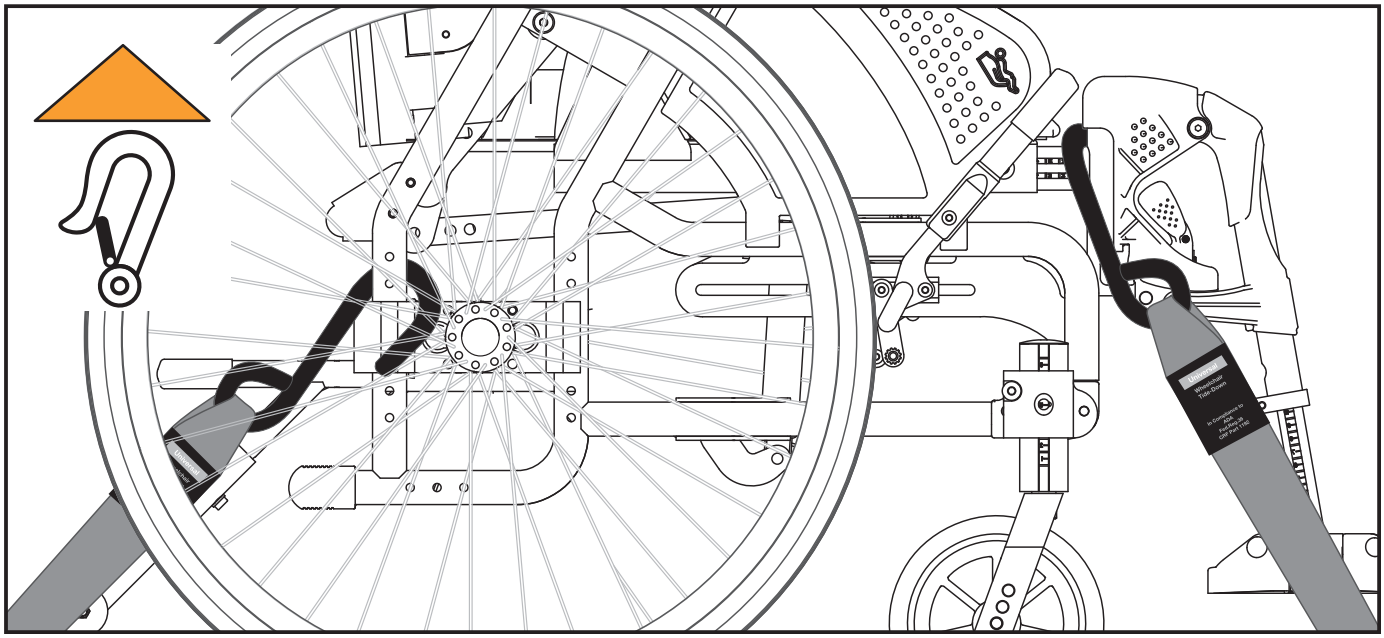


Figure 57

⚠ Handicare relinquishes itself of all responsibility in the event that Emineo is used as a passenger seat in a car using a different fastening system to the one mentioned above.

Fastening the seat belt:

- The pelvic-belt restraint must be fastened at as steep an angle as possible; between 30° and 75°
- The shoulder-belt restraint is fastened over the shoulder and chest
- The seat belt is fastened as tightly to the body as possible and must not be twisted
- Make sure the belt restraints is not kept away from the body by the wheelchair parts, such as armrests and wheels. For correct positioning, see figure below
- The chair must not be tilted backwards when used as a passenger seat in a car

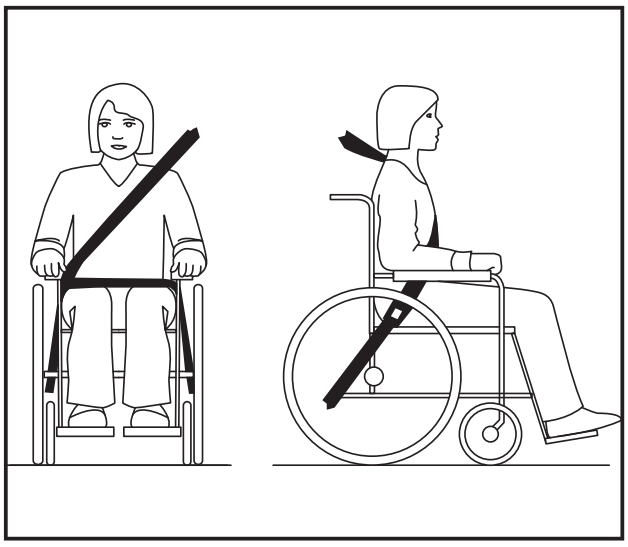


Figure 58

WARNING

a) Where possible, the wheelchair should be in a forward facing direction and secured in accordance with the instructions from the manufacturer of the fastening system.

b) This wheelchair is approved for use in cars and meets the requirements for forward facing transport and head on collisions. The wheelchair has not been tested for other positions in a vehicle.

c) The wheelchair has been dynamically tested in a forward facing direction, with the user secured by both a stomach and chest belt (3-point seat belt)

d) Both the stomach and chest belts should be used to reduce the risk of head and chest injuries in the event of colliding with parts in the car.
e) In order to reduce the risk of injury to the user, tables that are fitted to the wheelchair, which are not designed for crash safety, must be:
   - Removed and secured separately in the vehicle, or
   - Secured to the wheelchair, but with energy-absorbing padding placed between the table and the user
f) Where possible, other wheelchair accessories should be secured to the wheelchair or removed from the chair and secured in the vehicle during transport, so that they don't become loose and cause injury to the user in the event of a collision.
g) Support and positioning equipment must not be regarded as safety equipment/seat belts if they are not labelled in accordance with the requirements of ISO 7176/19-2008.
h) The wheelchair should be inspected by a representative of the manufacturer before being used again after any kind of collision.
i) No changes or replacements must be made to the anchorage points/car fastenings on the wheelchair, or to constructional elements or parts of the frame without consulting the manufacturer.
j) When using electric wheelchairs in motor vehicles, gel-filled batteries should be used.

Maintenance

The maintenance described in this section can be carried out by the user. Other maintenance work should be carried out by qualified personnel at your local supplier or at the technical aids centre. For information about repairs or service, ask the technical aids centre in your area.

Washing the frame

The frame should be regularly washed with mild soapy water. If the frame is very dirty, a scouring agent may be used. If necessary, the frame can be flushed using a high-pressure jet spray. Try to avoid spraying directly at the ball bearings. Dry the wheelchair thoroughly after washing or when it has been out in the rain. Grease all moving parts if you have used a scouring agent.

Cleaning the seat and backrest covers

The covers can be washed in a washing machine at 60 °C. See the washing instructions on the various textiles.

Conditions which may damage the wheelchair

The chair should not be used in temperatures below -35 °C or over 60°. No requirements are specified in connection with humidity and air pressure. No other requirements are specified for storage.

Screws and nuts

Screws and nuts can loosen over time. Therefore, remember to check and if necessary tighten them at regular intervals. A screw locking agent such as Blue Locktite (no. 243) may be used. If a locking nut has been removed, it loses some of its locking properties and should be replaced.

Driving wheels

The driving wheels are equipped with spokes. These should be adjusted if they begin to work loose. Ask a local bicycle dealer or your nearest technical aids centre.

Quick-release hub for the wheels

The quick-release hub for the driving wheels requires regular inspection. Check that the ball bearings are working satisfactorily. The release bolt and ball bearings should be cleaned and lubricated with oil regularly.

Recommended air pressures

The chair can be supplied with solid or pneumatic wheels.
Find the correct type and size of driving wheel or castor wheel, then read off the recommended maximum air pressure from the table. Note that a high air pressure makes the chair easier to roll, while a lower air pressure gives a softer ride.
For optimal driving characteristics, the air pressure should be checked regularly.

	kPa	Bar	PSI
Driving wheels, pneumatic tyres	350	3,5	50
Driving wheels, high pressure	630	6,3	90
Castor, 6” pneumatic tyres	250	2,5	35
Castor, 8” pneumatic tyres	250	2,5	36

Tools for service and maintenance of the wheelchair

Adjusting:	**Verktøy:**	**Adjusting:**	**Verktøy:**
Brakes	5 mm Allen key	**Backrest height**	4 mm Allen key
Balance point	3, 4, 5 and 6 mm Allen key	**Backrest angle**	6 mm Allen key and 13 mm wrench
Castervinkel	4 mm Allen key(Basic) 5 mm Allen key (One-tool)	**Centre of gravity**	27 mm wrench (One-tool) 27 mm and 16 mm wrench (Basic)
Seat depth	4 mm Allen key	**Seat height – back**	27 mm wrench (One-tool) 4 mm Allen key and 10 mm wrench (Basic)
Leg support length	5 mm Allen key		
Footplates	5 mm Allen key		
Anti-tip stabiliser	4 mm Allen key (One-tool) 4 mm Allen key and 10 mm wrench (Basic)	**Seat height – front**	5 mm Allen key
		Armrest height	10 mm wrench

Inspect after six months, and then every year

- Check that the brake works correctly. Adjust if necessary
- Check that the tyres are in good condition, with no damage to the sidewalls
- See that the chair is clean and that all moving parts work correctly
- Check for slack on the front castor wheel fork. Adjust if necessary. The axle should run freely about its axis, but there should not be any slack in an up/down direction
- Check and if necessary adjust all screwed joints

Repairs

Apart from minor repairs to the paint, changing the tyres or inner tubes, and adjusting the brakes, all repairs must be carried out by qualified personnel at your local supplier or at the technical aids centre.

For information about repairs or service, ask the technical aids centre in your area.

Removing the tyre

- Take off the wheel, then deflate the tyre by holding down the small pin in the valve, or by unscrewing the valve out completely
- See that the edge of the tyre is well down in the inward side of the rim (59A)
- Bend the edge of the tyre over the edge of the rim. Use a special tyre lever (59B) if necessary. Ensure that the inner tube does not get squeezed between the lever and the edge of the rim

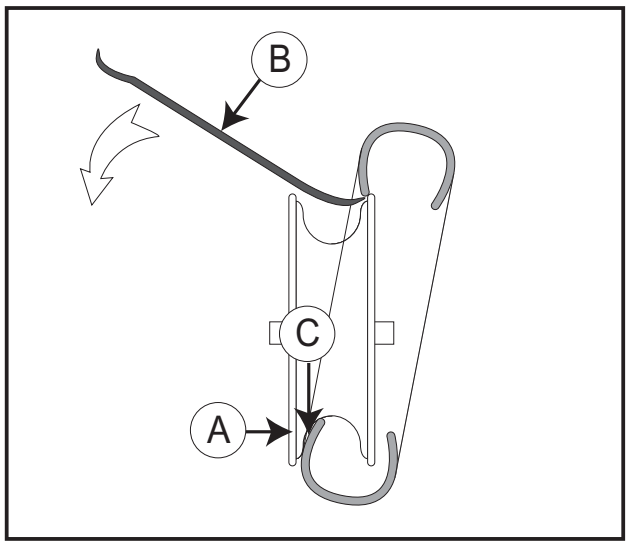


Figure 59

Fitting the tyre

- Put the inner tube into the new tyre and apply an anti-friction agent (tyre fitting agent or soap) to the edge of the tyre (51C)
- See that the edge of the tyre is well down inside the rim on one side. Bend the tyre over the edge. Ensure that the inner tube does not get squeezed
- Inflate the tyre to the correct pressure and fit the wheel to the chair

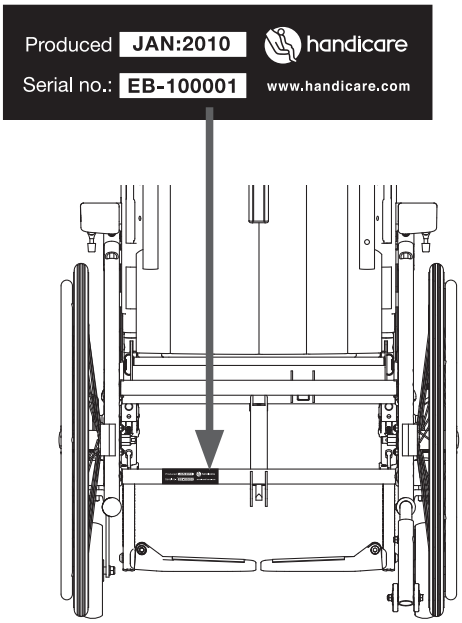
Labelling

Product name

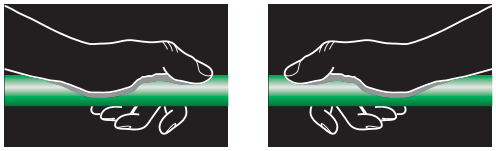
EMINEO

CE marking
Seat width
Seat depth
Max. user weight

Year and month of production
Serial number



Labelling for lifting points

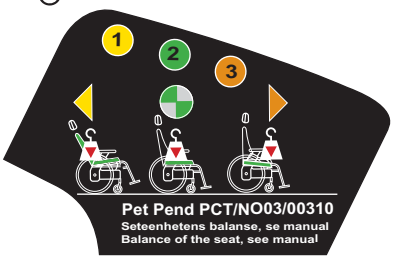


Angle of ascent

Beware of pinching

Anchorage points car

Balance point



Technical specifications and dimensions

The wheelchair is delivered as standard in several different seat heights and seat widths. The height that best suits the user of the wheelchair depends on two factors: The height of the user and how the wheelchair will be operated. Ask your dealer or enquire at your nearest aids centre if you are uncertain as to whether you have the correct height and width. (Dimensions are given in centimetres unless otherwise specified. Measurements given can vary +/- 1 cm.)

Seat width	Emineo: 39, 42, 45, 48 og 51 Emineo S: 42 Emineo K: 33 og 36
Seat depth	Emineo: 39 - 45 Emineo S: 34 - 40 Emineo K: 34 - 40
Seat height – front	The table shows front seat heights when using different kinds of fork and wheel sizes as well as seat heights when moving the position of the castor wheel inside the fork. The one-tool fork fastening also makes it possible to lift or lower the fork.

Fork	Castor wheel	One-tool	Basic
92 mm	**4”/100 mm**	**36-42**	**36-38**
92 mm	**5”/125 mm**	**38-44**	**38**
120 mm	**5”/125 mm**	**38-46**	**38-42**
120 mm	**6”/150 mm**	**40-46**	**40-42**
146 mm	**5”/125 mm**	**38-48**	**38-44**
146 mm	**6”/150 mm**	**38-48**	**40-46**
146 mm	**8”/200 mm**	**44-48**	**46-48**

Seat height – back	**Driving wheel**	**Seat height – back**
	20”	36 - 44
	22”	38 - 46
	24”	40 - 48
Backrest height	50 - 60	
Backrest angle	90°- 121°	

Seat tilt	0° - 16°
Armrest height	23 -33
Driving handle height	90–110
Total height	115
Total width	One-tool: Seat width +23 Basic: Seat width +20
Total length	100
Weight of chair	24 kg
Transport weight	17 kg
Transport width	Seat width +18.5
Transport height	71
Max. user weight	140 kg

The wheelchair and most of its fittings are produced in a special aluminium alloy. The backrest and seat covers are made of flame retardant material. The wheelchair can alternatively be delivered with solid/pneumatic tyres for the castor wheels and driving wheels.

Under normal use and with prescribed maintenance, the wheelchair's expected lifespan is approximately seven years.

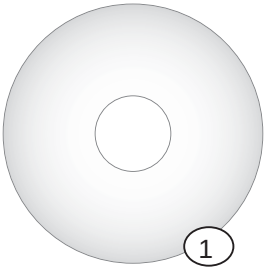
Areas of use

Emineo is designed for both indoor and outdoor use. The chair has been developed for users with reduced muscular strength, movement, mobility and stability.

Handling of waste

Waste from packaging and parts of the wheelchair, as well as the wheelchair itself, can be treated as ordinary waste. The main constituent of the wheelchair is aluminium, which is suitable for remelting. The plastic and cardboard packaging can be recycled.

Accessories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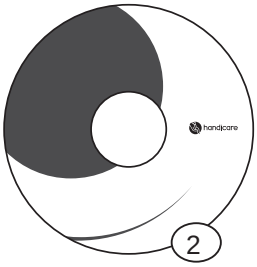
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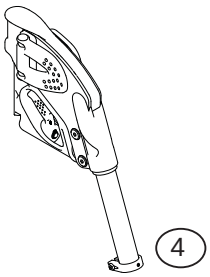
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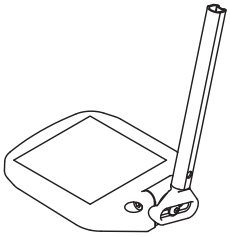
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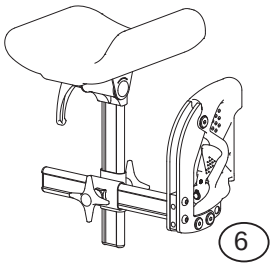
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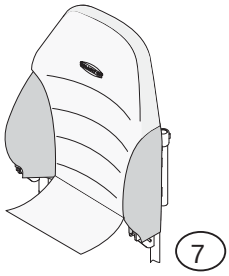
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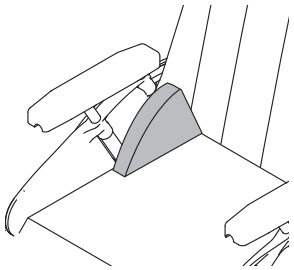
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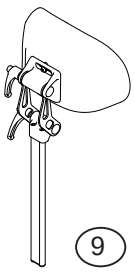
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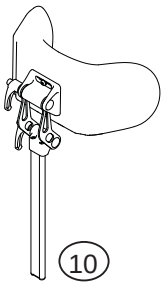
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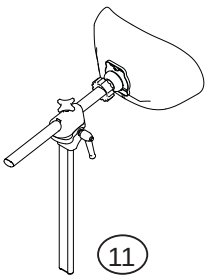
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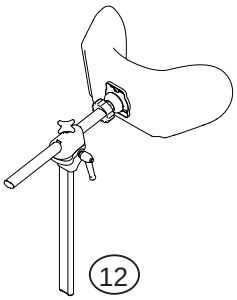
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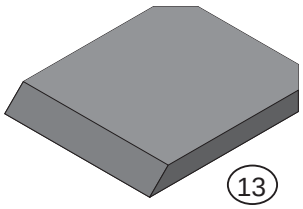
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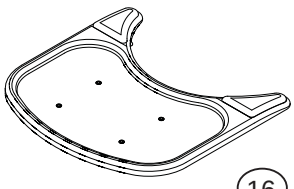
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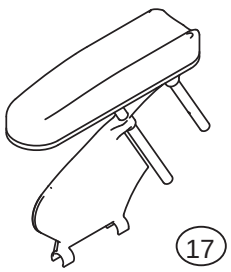
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Accessories

Driving wheel and driving wheel fastening

- Driving wheel fastening with Impera wheel block (enables the camber angle to be adjusted)
- Amputation block
- Driving wheels in a variety of sizes and tyres – solid, high-pressure and pneumatic
- Spider wheel (1)
- Single hand operated wheel (5)
- Friction hand rim
- Friction cover
- Spoke protectors (2) (3) (4)
- Driving wheels 20”, 22” and 24” with brake for assistant
- Transport wheels 12” and 16” with brake for assistant
- Quick-release hub for poor hand function

Castor wheel and castor wheel fastening

- Castor wheels in a variety of sizes and tyres – solid and pneumatic
- Castor wheel forks in different sizes

Brakes

- Brake, pull to lock
- Brake with long lever

Leg supports

- Angle adjustable leg supports (6)
- Leg supports with 70° and 90° hangers
- Short 80° hangers for leg supports
- Footplate, depth adjustable (7)
- Amputation support (8)

Back

- Smartsit module (9)
- Various types of neck supports
- Side supports (11) (12) (13) (14)
- User-operated tilt adjustment
- Adjustment mechanism for separate adjustment of backrest angle

Armrests and clothes protectors

- Armrests with short pads
- Hemiplegia armrests (23)

Miscellaneous accessories

- Gas-filled strut for tilt
- Cushion to reduce seat width (10)
- Pump, electric (22)
- Crutch holder
- Table (20)
- Seat cushion (15)
- Seat cushion Smartsit Basic (16)
- Seat cushion Smartsit Comfort (17)
- Positioning belt (18)
- Rucksack
- Satchel
- Anti-tip stabiliser swing forward with leg (19)

Fitting instructions are supplied with the accessories.

Contact your nearest Handicare branch or aids centre for accessories and spare parts.

Warranty

Definitions of terms

Definitions of terms used in this warranty:

- Consumable part: Part that is subjected to natural wear and tear or natural contamination during normal operation within the lifetime of the product (section 9 of Handicare's general terms and conditions of sale);
- Client: Those who purchase the product directly from Handicare;
- Corrective action: Repair, replace or refund of the product;
- Dealer: Those who re-sell the product to the User;
- Defect: Any circumstance due to which the product is not sound or fit to use, caused by a lack of quality of the material used to manufacture the product as well as the quality of the manufacturing process;
- Option: An accessory delivered by Handicare to extend the standard product model;
- Product: Product that is delivered according to brochure or contract (e.g. wheelchair, scooter, battery-charger etc.);
- Part: Part of product that can be exchanged or replaced. This can be an option, accessory, service part or consumable part;
- Returns: Product or part that needs to be returned;
- RMA-process: Process to return goods, contact your dealer;
- Service part: Part that is durable and may be subjected to natural wear and tear or natural contamination during normal operation within the lifetime of the product.;
- User: Those who use the product;
- Warranty: The rights and obligations set forth in this document;
- Warranty period: The period of time during which the warranty is valid;
- Warranty provider: Handicare B.V., Vossenbeemd 104, 5705 CL Helmond, The Netherlands.

Notwithstanding the rights and obligations of Handicare, Client and User set forth in Handicare's general terms and conditions of sale, the rights of the Client and/or User towards Handicare in case of defects are limited to the provisions set forth in this warranty. For the duration of the warranty period Handicare guarantees that the product is without defects.
In case of any defects the User is required –within two weeks after discovery of the defect- to contact the dealer. He has to complete a return form and return the product or part via the RMA-process. Handicare will, at its sole discretion, take the corrective action it seems fit under the given circumstances within a reasonable period of time (depends on nature of claim) from receipt of the completed return form. The warranty period will not be extended after a corrective action.

Warranty

Warranty period table

Description	Warranty period	Examples include, but are not limited to the parts mentioned below
Frame	5 years	Weldment/frame
Service Parts	New: 1 year after invoice Repaired: 90 days after invoice	Brakes
Consumable parts	40 days after invoice	Seat- and back textiles, wheels, griphandles etc.
Options/ Accessories	2 years	Headrests, legrests, drum brake etc. Not being service part or consumable part.

Handicare will only accept shipment costs and corrective costs related to warranty on equipment during the warranty period.

This warranty will void in case of:

- The product and/or its parts being modified or items having been added by others than Handicare;
- Changes in cosmetic appearance by use;
- Failure to observe the instructions for use and maintenance, use other than normal use, wear and tear, negligence, collateral damage by neglect of earlier symptoms, overloading, third-party accidents, non-original parts used and defects not caused by the product;
- Circumstances beyond our control (flood, fire, etc.).

This warranty does not cover:

- Tyres and inner tubes
- Batteries (covered by the battery manufacturer's warranty).

Clients and/or Users have legal (statutory) rights under applicable national laws relating to the sale of consumer products. This warranty does not affect statutory rights you may have nor those rights that cannot be excluded or limited, nor rights against the entity from whom the product was purchased. Clients may assert any rights they have at their sole discretion.

Warning: The content of this user manual is only intended as information. This information may be changed without warning and must therefore not be interpreted as an obligation on the part of Handicare. Handicare takes no responsibility, legal or financial, for any errors or inaccuracies which may be found in this user manual. All products described in this user manual are registered trademarks and cannot be utilised in other contexts without the consent of Handicare.

Dealer:

Serial number:

CE

handicare

www.handicare.com